HCD-VX5A/VX5AJ/VX7A

SERVICE MANUAL

E Model
HCD-VX5A/VX7A

Tourist Model
HCD-VX5AJ

Photo: HCD-VX7A

HCD-VX5A/VX5AJ/VX7A is the Amplifier, Video CD player, Tape Deck and Tuner section in MHC-VX5A/VX5AJ/VX7A.

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CD Section	Model Name Using Similar Mechanism	HCD-GRX50/RXD7
	CD Mechanism Type	CDM38L-5BD34L
	Base Unit Name	BU-5BD34L
	Optical Pick-up Name	KSS-213D/Q-RP
Tape deck Section	Model Name Using Similar Mechanism	HCD-GRX50/RXD7
	Tape Transport Mechanism Type	TCM-230AWR2

SPECIFICATIONS

Amplifier section

HCD-VX7A:
The following measured at AC 120, 220, 240 V 50/60 Hz
DIN power output (rated) 130 + 130 watts (6 ohms at 1 kHz, DIN)
Continuous RMS power output (reference) 170 + 170 watts (6 ohms at 1 kHz, 10% THD)

HCD-VX5A/VX5AJ:
The following measured at AC 120, 220, 240 V 50/60 Hz
DIN power output (rated) 110 + 110 watts (8 ohms at 1 kHz, DIN)
Continuous RMS power output (reference) 140 + 140 watts (8 ohms at 1 kHz, 10% THD)

Inputs
MD IN: (phono jacks) voltage 450 mV, impedance 47 kilohms
VIDEO (AUDIO) IN: (phono jacks) voltage 250 mV, impedance 47 kilohms
MIC 1/2 (phone jack): sensitivity 1 mV, impedance 10 kilohms

Outputs
MD OUT (phono jacks): voltage 250 mV impedance 1 kilohms
VIDEO OUT (phono jack): max. output level 1Vp-p, unbalanced, Sync negative, load impedance 75 ohms
S-VIDEO OUT (4-pin/mini-DIN jack): Y: 1Vp-p, unbalanced, Sync negative, C: 0.286Vp-p, load impedance 75 ohms
PHONES (stereo phone jack): accepts headphones of 8 ohms or more

SPEAKER:
HCD-VX7A: accepts impedance of 6 to 16 ohms
HCD-VX5A/VX5AJ: accepts impedance of 8 to 16 ohms
SUPER WOOFER: Voltage 1 V, impedance 1 kilohm

VIDEO CD/CD player section

System: Compact disc and digital audio and video system
Laser: Semiconductor laser (λ=780nm) Emission duration: continuous
Laser output: Max. 44.6 μW* *This output is the value measured at a distance of 200 mm from the objective lens surface on the Optical Pick-up Block with 7 mm aperture.
Wavelength: 780 – 790 nm
Frequency response: 2 Hz – 20 kHz (±0.5 dB)
Signal-to-noise ratio: More than 90 dB
Dynamic range: More than 90 dB
Video color system format: NTSC, PAL

CD OPTICAL DIGITAL OUT
(Square optical connector jack, rear panel)
Wavelength: 660 nm
Output Level: –18 dBm

– Continued on next page –

MINI Hi-Fi COMPONENT SYSTEM

MICROFILM

SONY®

Tape player section

Recording system	4-track 2-channel stereo
Frequency response (DOLBY NR OFF)	40 – 13,000 Hz (±3 dB), using Sony TYPE I cassette 40 – 14,000 Hz (±3 dB), using Sony TYPE II cassette
Wow and flutter	±0.15% W.Peak (IEC) 0.1% W.RMS (NAB) ±0.2% W.Peak (DIN)

Tuner section

FM stereo, FM/AM superheterodyne tuner

FM tuner section

Tuning range	87.5 – 108.0 MHz
Antenna	FM lead antenna
Antenna terminals	75 ohm unbalanced
Intermediate frequency	10.7 MHz

AM tuner section

Tuning range	
2 Band type:	
Thai model:	531 – 1,602 kHz (with the interval set at 9 kHz) 530 – 1,710 kHz (with the interval set at 10 kHz)
3 Band type:	
Saudi Arabia model:	
MW:	531 – 1,602 kHz (with the interval set at 9 kHz)
SW:	5.95 – 17.90 MHz (with the interval set at 5 kHz)
Other models:	
MW:	531 – 1,602 kHz (with the interval set at 9 kHz) 530 – 1,710 kHz (with the interval set at 10 kHz)
SW:	5.95 – 17.90 MHz (with the interval set at 5 kHz)
Antenna	AM loop antenna
Antenna terminals	External antenna terminal
Intermediate frequency	450 kHz

General

Power requirements	
Thai model:	220 V AC, 50/60 Hz
Other models:	120 V, 220 V or 230 – 240 V AC, 50/60 Hz Adjustable with voltage selector
Power consumption:	
HCD-VX7A:	170 watts
HCD-VX5A/VX5AJ:	160 watts
Dimensions (w/h/d)	Approx. 280 x 340 x 395 mm ($13^{1}/_{8}$ x $13^{1}/_{2}$ x $15^{5}/_{8}$ in.)
Mass:	
HCD-VX7A:	Approx. 10.7 kg
HCD-VX5A/VX5AJ:	Approx. 10.0 kg
Supplied accessories:	AM loop antenna (1) Remote commander (1) Batteries (2) FM lead antenna (1) Speaker cords (2) Video cable (1) Front speaker pads (8)

Design and specifications are subject to change without notice.

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SECTION 1
SERVICING NOTES

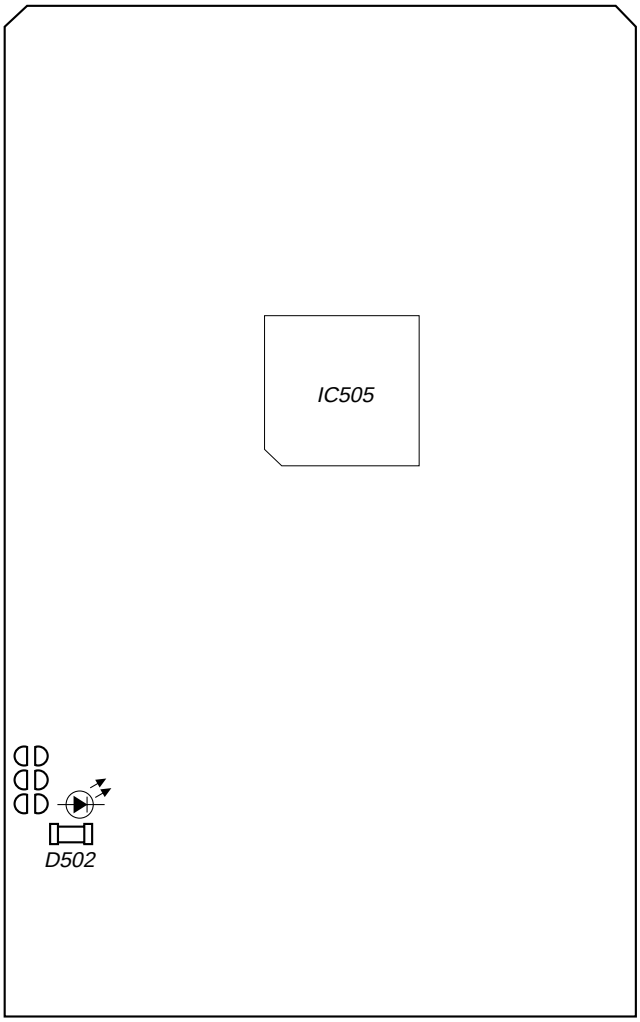
SELF-DIAGNOSIS

This unit is equipped with a self-diagnosis function.
The function is used for diagnosing the conditions of the circuits of the VIDEO board.
The circuits can be determined if normal or abnormal by the lighting of D502 of the VIDEO board.

Lighting of D502

When lit : Operates normally
Blinks repeatedly: The circuit may be faulty.

– VIDEO Board (Side A) –



SAFETY-RELATED COMPONENT WARNING!!

COMPONENTS IDENTIFIED BY MARK ⚠ OR DOTTED LINE WITH MARK ⚠ ON THE SCHEMATIC DIAGRAMS AND IN THE PARTS LIST ARE CRITICAL TO SAFE OPERATION. REPLACE THESE COMPONENTS WITH SONY PARTS WHOSE PART NUMBERS APPEAR AS SHOWN IN THIS MANUAL OR IN SUPPLEMENTS PUBLISHED BY SONY.

NOTES ON HANDLING THE OPTICAL PICK-UP BLOCK OR BASE UNIT

The laser diode in the optical pick-up block may suffer electrostatic break-down because of the potential difference generated by the charged electrostatic load, etc. on clothing and the human body.
During repair, pay attention to electrostatic break-down and also use the procedure in the printed matter which is included in the repair parts.
The flexible board is easily damaged and should be handled with care.

NOTES ON LASER DIODE EMISSION CHECK

The laser beam on this model is concentrated so as to be focused on the disc reflective surface by the objective lens in the optical pick-up block. Therefore, when checking the laser diode emission, observe from more than 30 cm away from the objective lens.

Notes on chip component replacement

- Never reuse a disconnected chip component.
- Notice that the minus side of a tantalum capacitor may be damaged by heat.

Flexible Circuit Board Repairing

- Keep the temperature of the soldering iron around 270 ˚C during repairing.
- Do not touch the soldering iron on the same conductor of the circuit board (within 3 times).
- Be careful not to apply force on the conductor when soldering or unsoldering.

CAUTION
Use of controls or adjustments or performance of procedures other than those specified herein may result in hazardous radiation exposure.

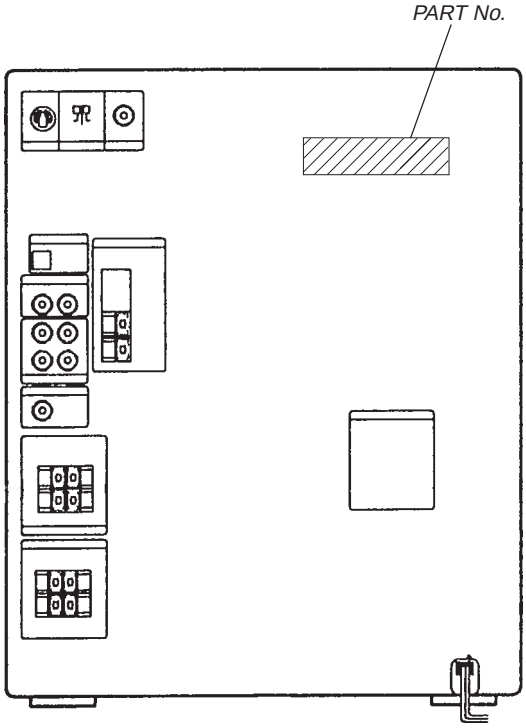
This appliance is classified as a CLASS 1 LASER product. The CLASS 1 LASER PRODUCT MARKING is located on the rear exterior.

Laser component in this product is capable of emitting radiation exceeding the limit for Class 1.

The following caution label is located inside the unit.

CAUTION : INVISIBLE LASER RADIATION WHEN OPEN AND INTERLOCKS DEFEATED. AVOID EXPOSURE TO BEAM.
ADVARSEL : USYNLIG LASERSTRÅLING VED ÅBNING NÅR SIKKERHEDSAFBRYDERE ER UDE AF FUNKTION. UNDGÅ UDSAETTELSE FOR STRÅLING.
VORSICHT : UNSICHTBARE LASERSTRAHLUNG, WENN ABDECKUNG GEÖFFNET UND SICHEREITSVERRIEGELUNG ÜBERBRÜCKT. NICHT DEM STRAHL AUSSETZEN.
VARO! : AVATTAESSA JA SUOJALUKITUS OHITETTAESSA OLET ALTTIINA NÄKYMÄTTÖMÄLLE LASERSÄTEILYLLE. ÄLÄ KATSO SÄTEESEEN.
VARNING : OSYNLING LASERSTRÅLING NÄR DENNA DEL ÄR ÖPPNAD OCH SPÄRREN ÄR URKOPPLAD. BETRAKTA EJ STRÅLEN.
ADVERSEL : USYNLIG LASERSTRÅLING NÅR DEKSEL ÅPNES OG SIKKERHEDSLÅS BRYTES. UNNGÅ EKSPONERING FOR STRÅLEN.
VIGYAZAT! : A BURKOLAT NYITÁSAKOR LÁTHATATLAN LÉZERSUGÁRVESZÉLY! KERÜLJE A BESUGÁRZÁST!

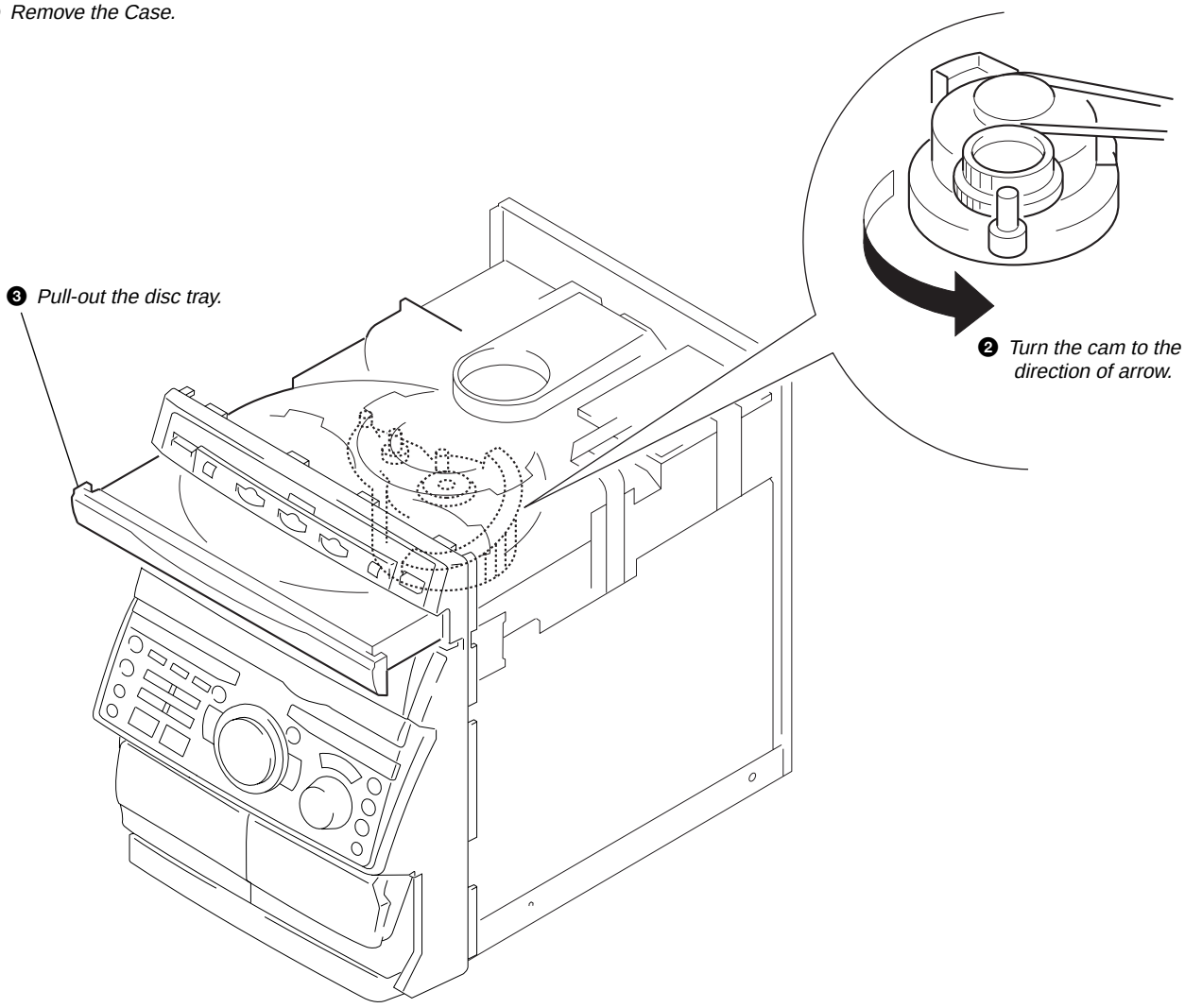
MODEL IDENTIFICATION
– Rear Panel –



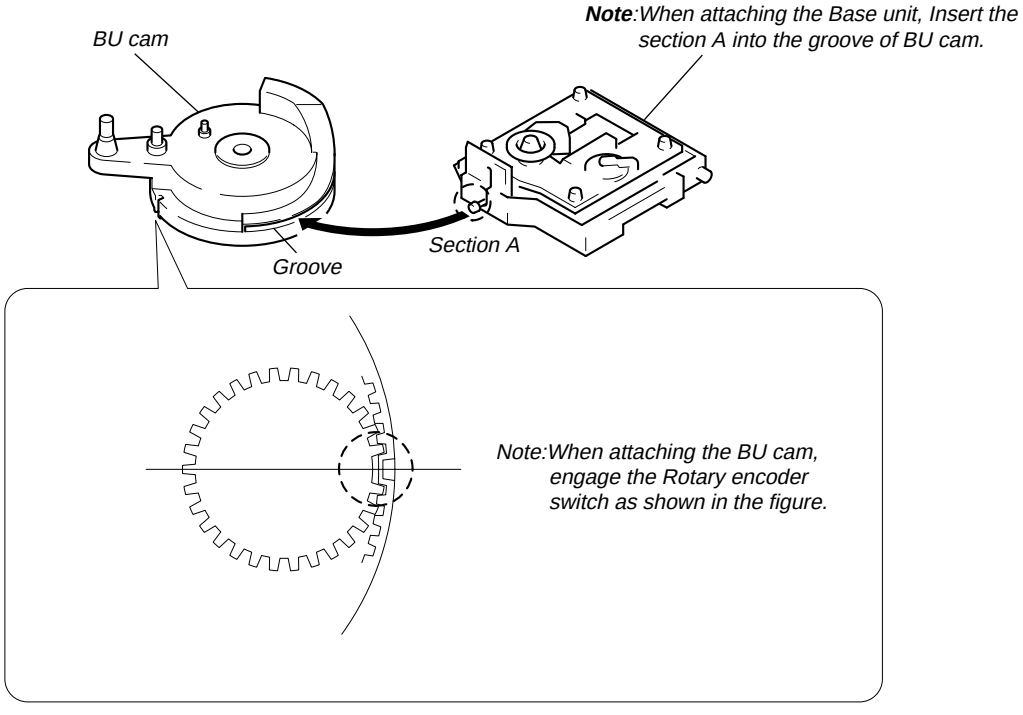
MODEL	PART No.
VX5A : Saudi Arabia model	4-215-639-0☐
VX5A : Malaysia and Singapore models	4-215-639-1☐
VX5A : Taiwan model	4-215-639-2☐
VX5A : E model	4-215-639-3☐
VX5A : Thai model	4-215-639-4☐
VX5A : Hong Kong model	4-215-639-5☐
VX5A : Indonesia model	4-215-639-6☐
VX5AJ: Saudi Arabia model	4-215-639-7☐
VX5AJ: Tourist model	4-215-639-8☐
VX5AJ: E model	4-215-639-9☐
VX7A : Saudi Arabia model	4-215-640-0☐
VX7A : Malaysia and Singapore models	4-215-640-1☐
VX7A : E, Indonesia and Thai models	4-215-640-4☐

HOW TO OPEN THE DISC TRAY WHEN POWER SWITCH TURNS' OFF.

❶ *Remove the Case.*



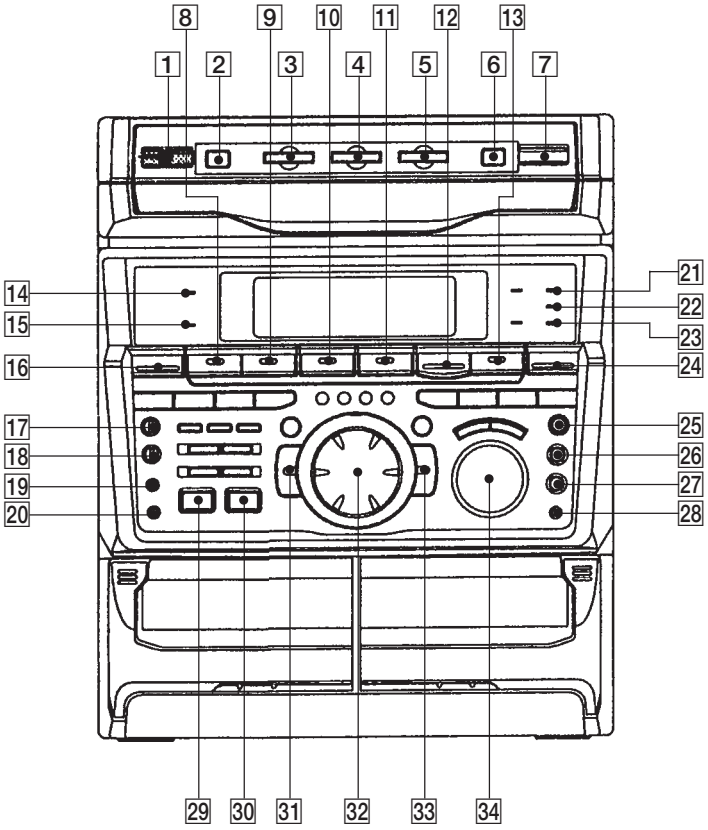
NOTE FOR INSTALLATION (ROTARY ENCODER)


BU cam
Note:When attaching the Base unit, Insert the section A into the groove of BU cam.
Section A
Groove
Note:When attaching the BU cam, engage the Rotary encoder switch as shown in the figure.

SECTION 2
GENERAL

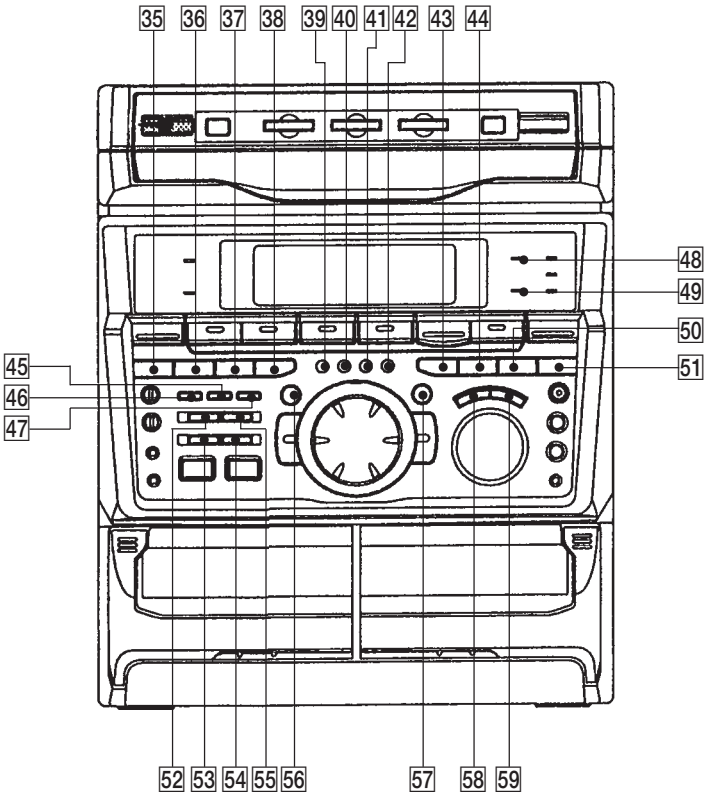
• LOCATION OF CONTROLS

– Front View –



1 I/⏻ button
2 (STANDBY) POWER SAVE, DEMO button
3 DISC 1 button
4 DISC 2 button
5 DISC 3 button
6 DISC SKIP, EX-CHANGE button
7 ⏏ button
8 ◄ TAPE A button and indicator
9 ► TAPE A button and indicator
10 ◄ TAPE B button and indicator
11 ► TAPE B button and indicator
12 ■ button
13 ►II CD button and indicator
14 EFFECT indicator
15 SYNC EQ indicator
16 FUNCTION button
17 ECHO LEVEL knob
18 MIC LEVEL knob
19 MIC 1 jack
20 MIC 2 jack
21 VIDEO CD indicator
22 PBC indicator
23 PBC OFF indicator
24 TUNER BAND button
25 REC PAUSE/START button and indicator
26 HI-DUB button
27 CD SYNC button
28 PHONE jack
29 CD LOOP button
30 CD FLASH button
31 – ◄◄ button and indicator
32 JOG dial and indicator
33 + ►► button and indicator
34 VOLUME knob

– Front View –



35 EFFECT button (VX7A)
EDIT/DIRECTION
TUNER MEMORY button (VX5A/VX5AJ)

36 FILE SELECT button (VX7A)
PLAY MODE, DOLBY NR button
(VX5A/VX5AJ)

37 GEQ CONTROL button (VX7A)
REPEAT STEREO/MONO button
(VX5A/VX5AJ)

38 P FILE MEMORY button (VX7A)
FILE SELECT button (VX5A/VX5AJ)

39 SELECT button

40 RETURN button

41 PREV button

42 NEXT button

43 CD NON-STOP button and indicator

44 KARAOKE PON/MPX button

45 PLAY MODE, DOLBY NR button
(VX7A)

46 EDIT, DIRECTION, TUNER MEMORY
button (VX7A)

47 REPEAT, STEREO/MONO button (VX7A)

48 SYNC BASS H indicator

49 SYNC BASS L indicator

50 SYNC EQ button

51 SYNC BASS button

52 DISPLAY button

53 CLOCK TIMER SET button

54 TIMER SELECT button and indicator

55 SPECTRUM ANALYZER button

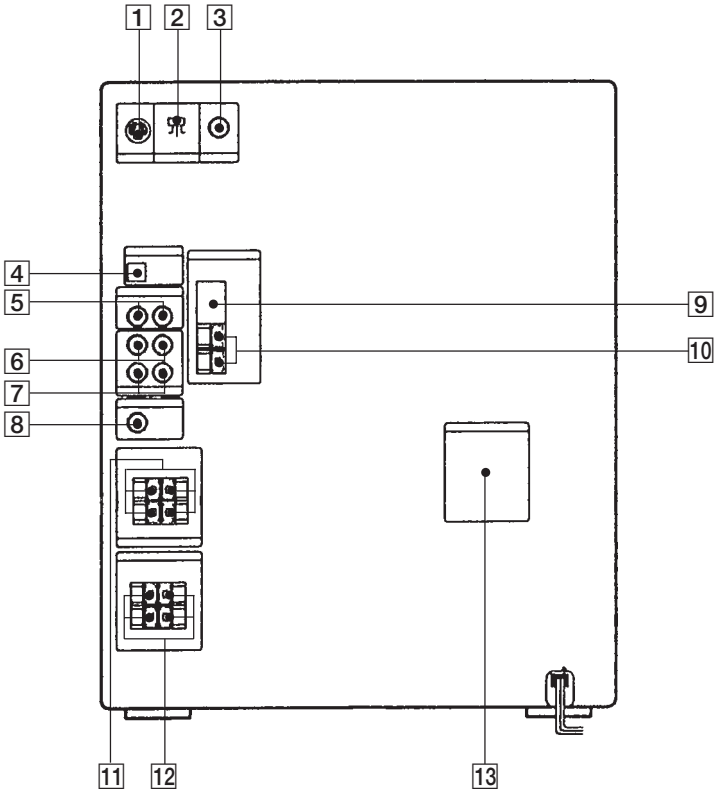
56 GROOVE button and indicator

57 ENTER/NEXT button and indicator

58 DBFB button

59 CINEMA SPACE/SURROUND button

– Rear View –

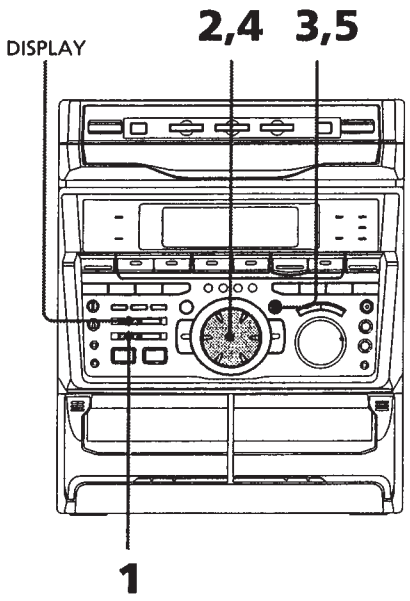


1 S VIDEO jack
2 SYSTEM SELECT switch
3 VIDEO OUT jack
4 CD DIGITAL OUT, OPTICAL connector
5 VIDEO (AUDIO) IN jack
6 MD IN jack
7 MD OUT jack
8 SUPER WOOFER jack
9 FM ANTENNA terminals
10 AM ANTENNA terminals
11 SURROUND SPEAKER terminals (VX7A)
12 SPEAKER terminals
13 VOLTAGE SELECTOR switch
(EXCEPT Thai model)

This section is extracted from instruction manual.

Step 2: Setting the time

You must set the time before using the timer functions.



1 Press CLOCK/TIMER SET.
The hour indication flashes.

2 Turn the jog dial to set the hour.

3 Press ENTER/NEXT.
The minute indication flashes.

4 Turn the jog dial to set the minute.

5 Press ENTER/NEXT.
The clock starts working.

Tip

If you've made a mistake, start over from step 1.

To change the time

The previous explanation shows you how to set the time while the power is off. To change the time while the power is on, do the following:

1 Press CLOCK/TIMER SET.
2 Turn the jog dial to select SET CLOCK.
3 Press ENTER/NEXT.
4 Perform steps 2 through 5 above.

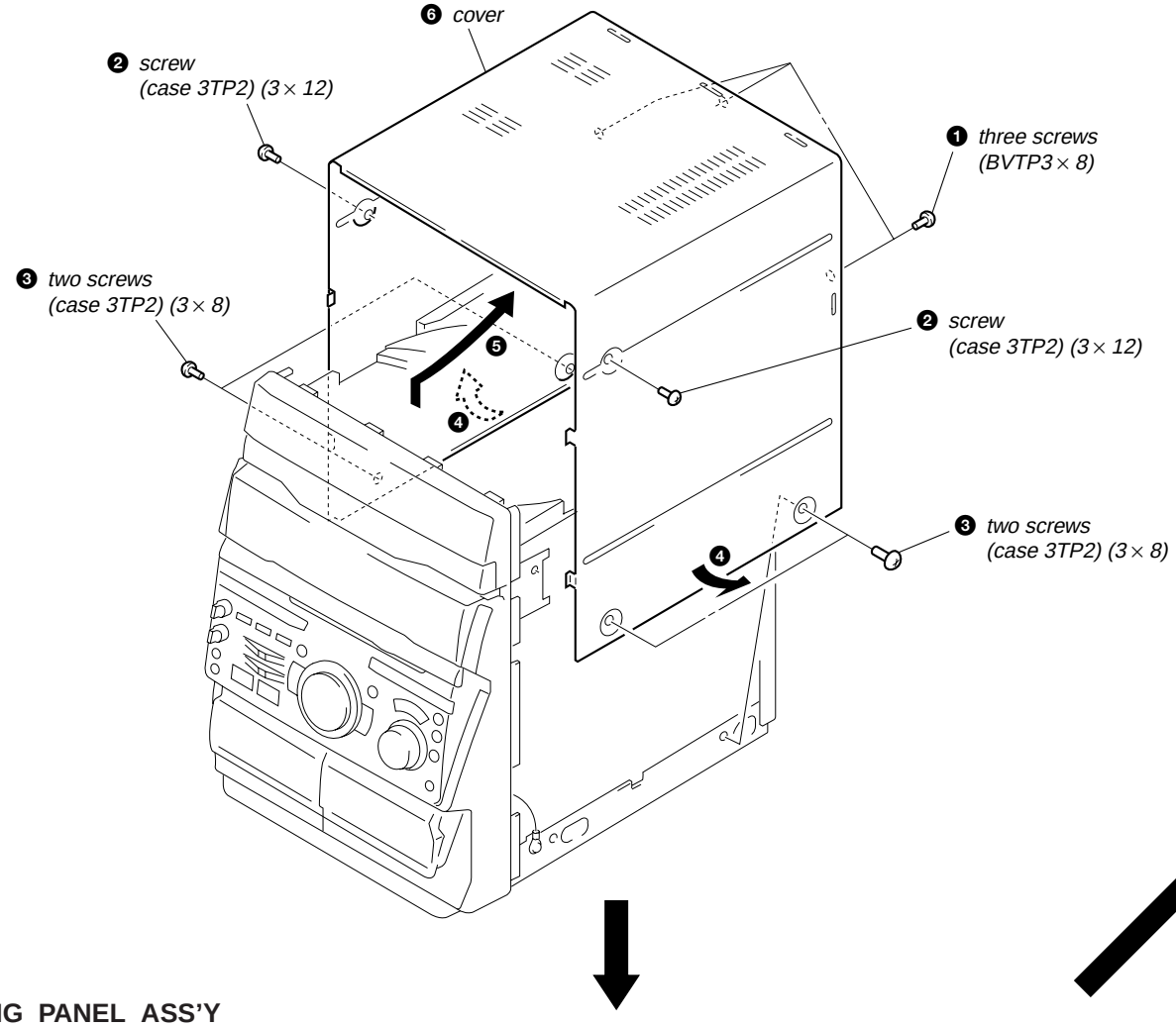
Note

The clock settings are cancelled when you disconnect the power cord or if a power failure occurs.

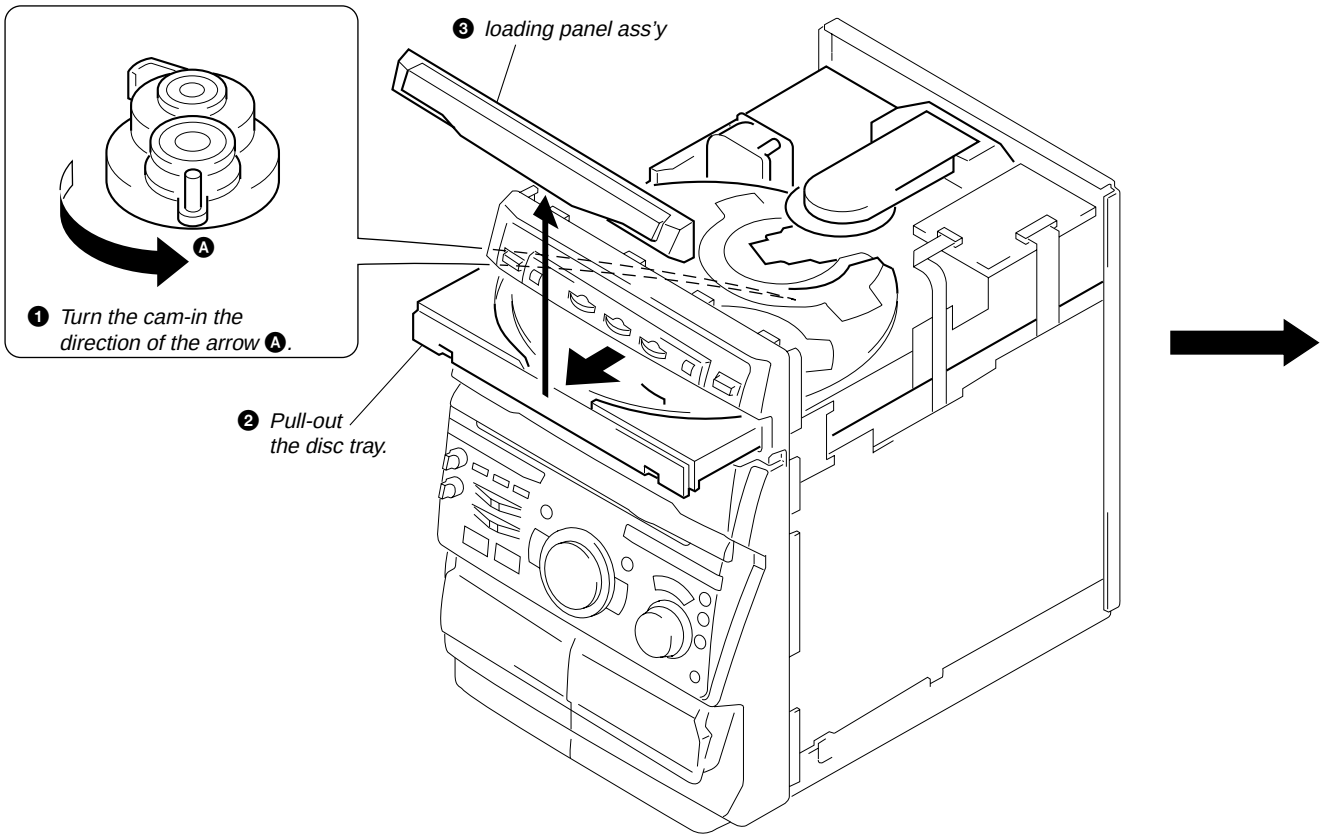
SECTION 3
DISASSEMBLY

Note: Follow the disassembly procedure in the numerical order given.

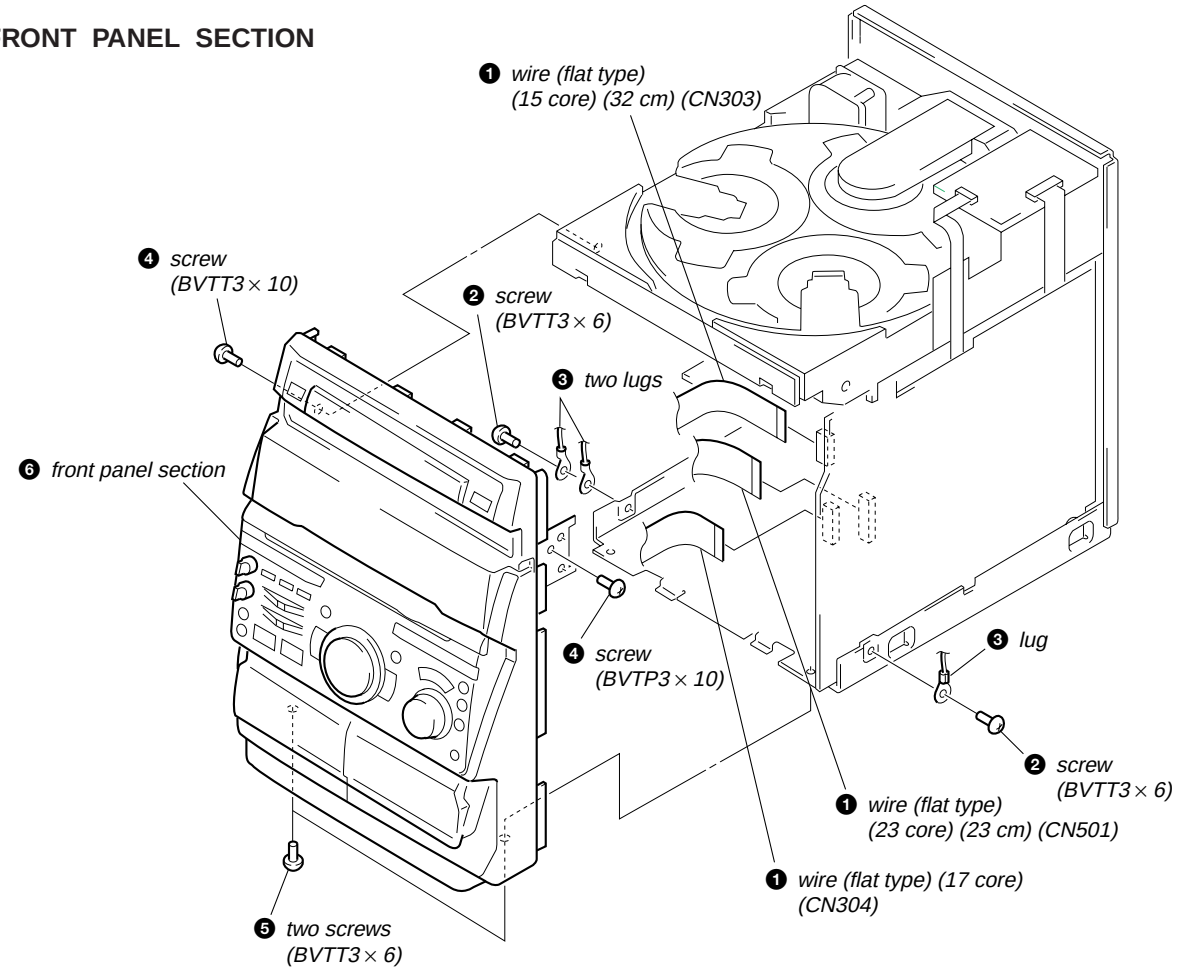
COVER



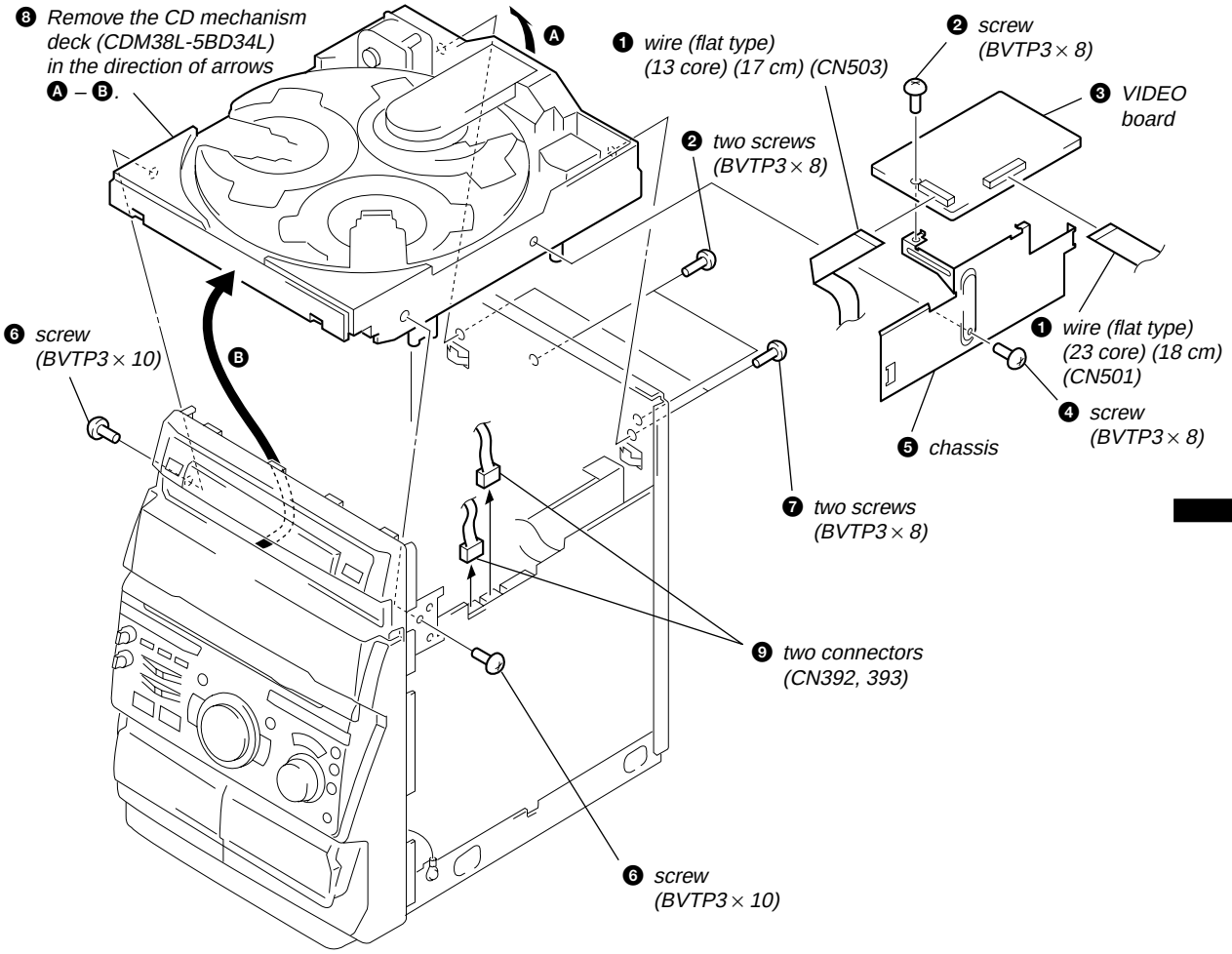
LOADING PANEL ASS'Y



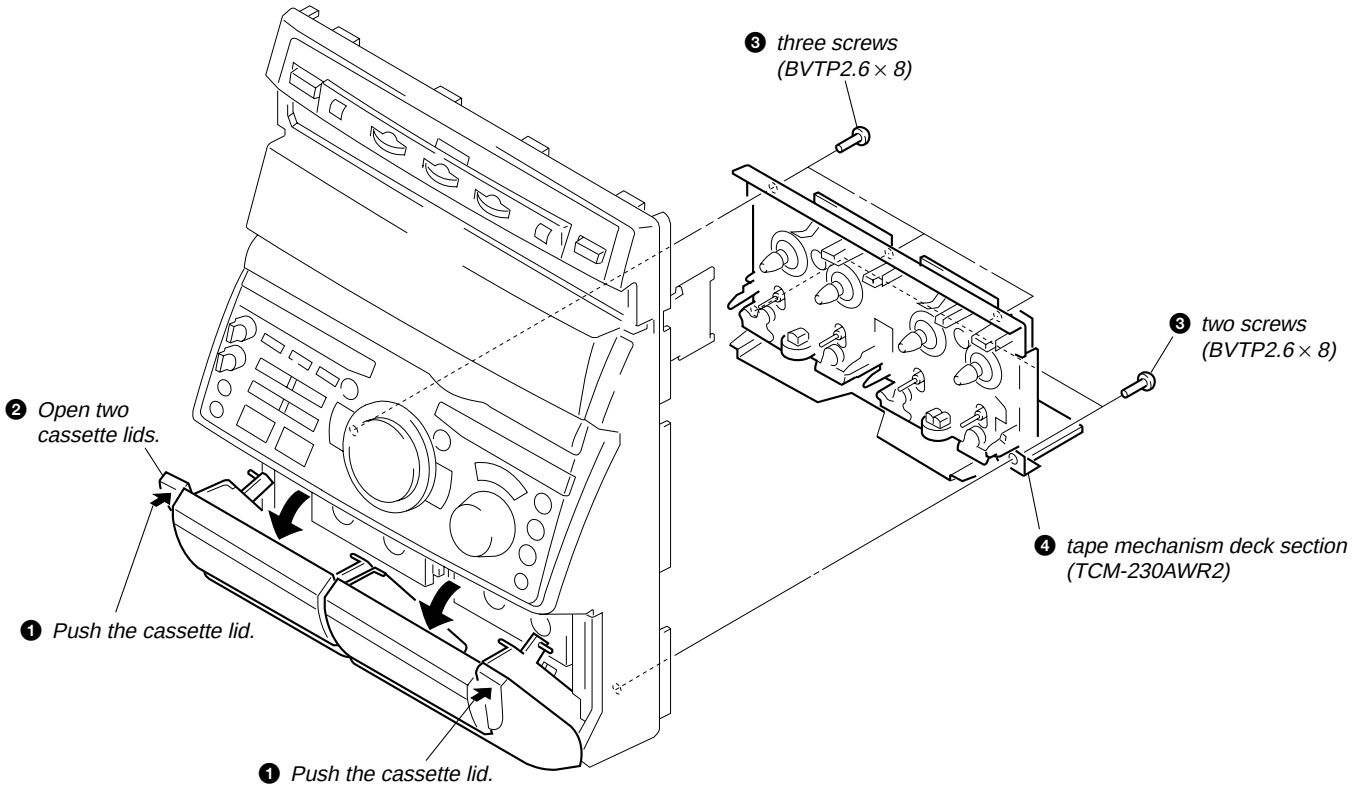
FRONT PANEL SECTION


❶ wire (flat type) (15 core) (32 cm) (CN303)
❹ screw (BVTT3 × 10)
❷ screw (BVTT3 × 6)
❸ two lugs
❻ front panel section
❹ screw (BVTP3 × 10)
❸ lug
❷ screw (BVTT3 × 6)
❶ wire (flat type) (23 core) (23 cm) (CN501)
❶ wire (flat type) (17 core) (CN304)
❺ two screws (BVTT3 × 6)

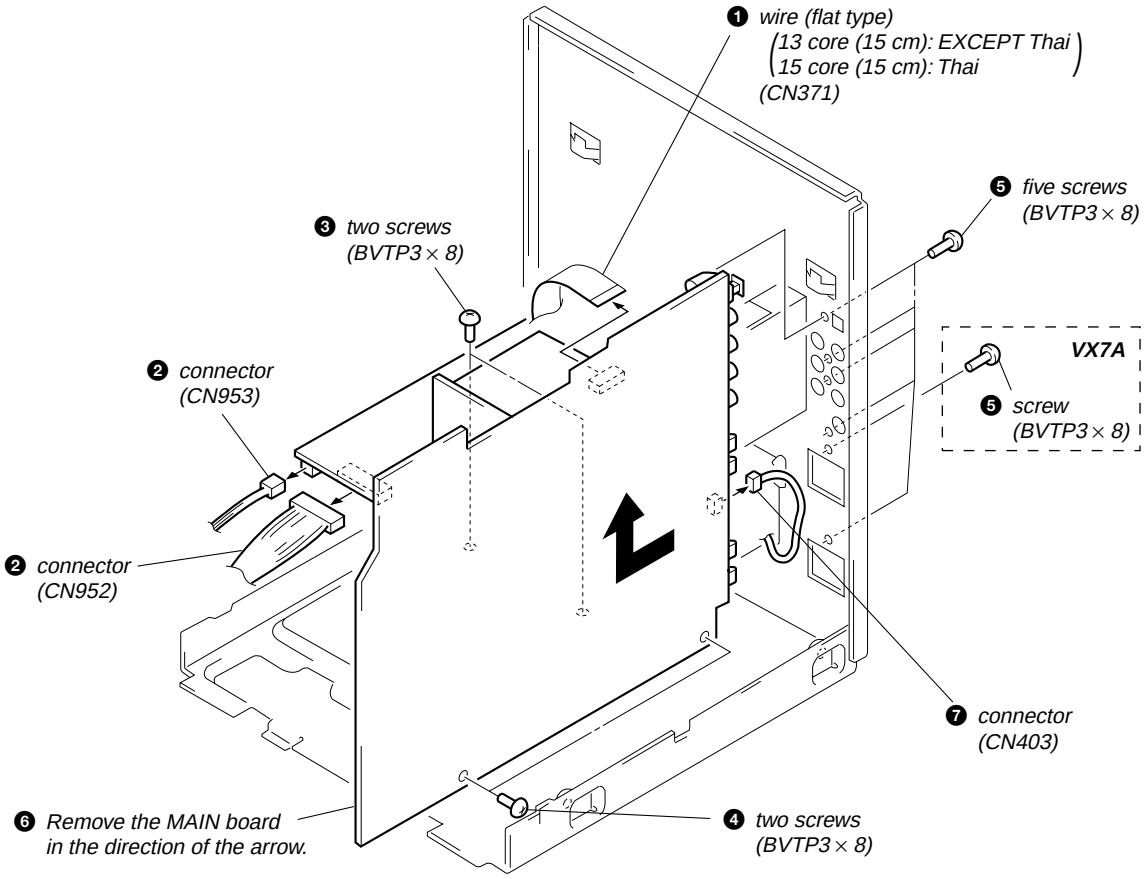
VIDEO BOARD, CD MECHANISM DECK SECTION (CDM38L-5BD34L)


❽ Remove the CD mechanism deck (CDM38L-5BD34L) in the direction of arrows Ⓐ – Ⓑ.
Ⓐ
❶ wire (flat type) (13 core) (17 cm) (CN503)
❷ screw (BVTP3 × 8)
❸ VIDEO board
❷ two screws (BVTP3 × 8)
❻ screw (BVTP3 × 10)
Ⓑ
❶ wire (flat type) (23 core) (18 cm) (CN501)
❹ screw (BVTP3 × 8)
❺ chassis
❼ two screws (BVTP3 × 8)
❾ two connectors (CN392, 393)
❻ screw (BVTP3 × 10)

TAPE MECHANISM DECK SECTION (TCM-230AWR2)



MAIN BOARD



SECTION 4
TEST MODE

[MC Cold Reset]

• The cold reset clears all data including preset data stored in the RAM to initial conditions. Execute this mode when returning the set to the customer.

Procedure:

1. Turn the power ON or set to the DEMO mode.
2. Press three buttons of [■], [ENTER/NEXT], and [I/⏻] simultaneously.
3. The set is reset, and displays “COLD RESET”, then becomes DEMO mode.

[MC Hot Reset]

• This mode resets the set with the preset data kept stored in the memory. The hot reset mode functions same as if the power cord is plugged in and out.

Procedure:

1. Turn the power ON or set to the DEMO mode.
2. Press three buttons of [■], [ENTER/NEXT], and [DISC 1] simultaneously.
3. The set is reset, and becomes standby state.

[Change-over the AM Tuning Interval] (EXCEPT Saudi Arabia model)

• The AM tuning interval can be changed over 9 kHz or 10 kHz.

Procedure:

1. Press the [I/⏻] button to turn the power ON.
2. Select the function “TUNER”, and press the [TUNER/BAND] button to select the BAND “AM (MW)”.
3. Press the [I/⏻] button to turn the power OFF.
4. Press the [ENTER/NEXT] and [I/⏻] buttons simultaneously, and the display on the fluorescent indicator tube changes to “AM 9 k STEP” or “AM 10 k STEP”, and thus the tuning interval is changed over.

[CD Delivery Mode]

• This mode moves the optical pick-up to the position durable to vibration. Use this mode when returning the set to the customer after repair.

Procedure:

1. Press the [I/⏻] button to turn the power ON.
2. Press the [CD LOOP] and [I/⏻] buttons simultaneously.
3. A message “LOCK” is displayed on the fluorescent indicator tube, and the CD delivery mode is set.

[LED and Fluorescent Indicator Tube All Lit, Key Check Mode]

Procedure:

1. Press three buttons of [■], [ENTER/NEXT], and [DISC 2] simultaneously.
2. LEDs and fluorescent indicator tube are all turned on.
   Press the [DISC 2] button, and the key check mode is activated.
3. In the key check mode, the fluorescent indicator tube displays “K 0 J0 V0”. Each time a button is pressed, “K” value increases. However, once a button is pressed, it is no longer taken into account.
   “J” value increases like 1, 2, 3 ... if turn the JOG dial clockwise, or it decreases like 0, 9, 8 ... if turn the JOG dial counterclockwise.
   “V” value increases like 1, 2, 3 ... if turn the [VOLUME] dial clockwise, or it decreases like 0, 9, 8 ... if turn the JOG dial counterclockwise.
4. To exit from this mode, press three buttons in the same manner as step 1, or disconnect the power cord.

[Aging Mode]

This mode can be used for operation check of tape deck section. Tape deck section work in parallel.

- If an error occurred:
  The aging operation stops and display then status.
- If no error occurs:
  The aging operation continues repeatedly.

Procedure:

1. Load the tapes into the decks A and B respectively.
2. Press the [FUNCTION] button to select the function "CD".
3. Press the [PLAY MODE] button to set the "ALL DISCS" mode, and press the [REPEAT] button to "REPEAT" off.
4. Press three buttons of [■] , [ENTER/NEXT], and [DISC SKIP/EX-CHANGE] simultaneously.
5. The aging mode is activated, if the indicator of disc tray number on the fluorescent indicator tube is blinking.
6. To exit from the aging mode, press the [I/⏻] button to turn the power OFF and operate the cold reset. (Refer to the "MC Cold Reset")

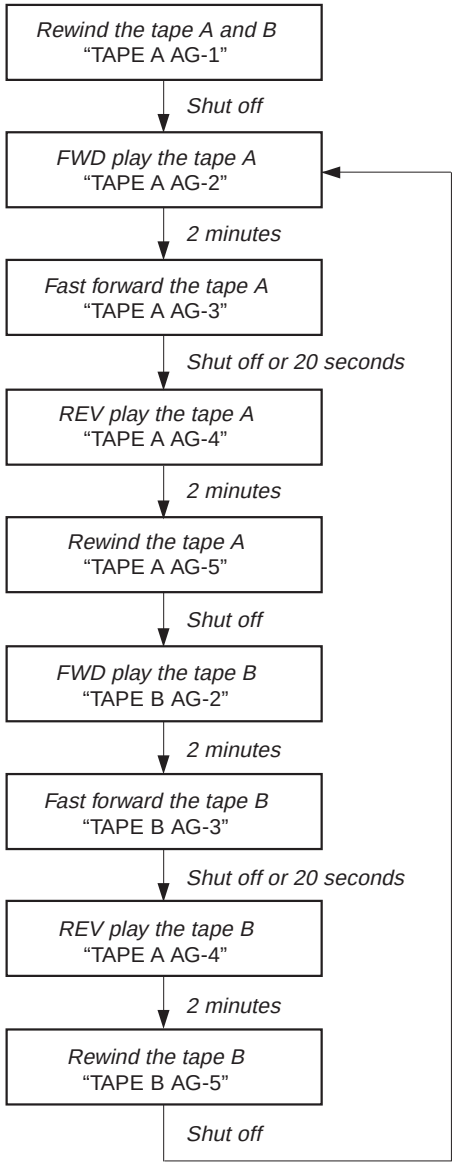
1. Display at the Aging Mode

- Display operating state of tape deck section alternately.
- If an error occurred, stop display.

2. Tape Deck Section

- The sequence during the aging mode is following as below.
- If an error occurred, stop display that step.

Aging mode sequence (Tape deck section) :



Note: "TAPE ∗ AG-∗" is display of each step.

[VIDEO CD Color-bars Mode]

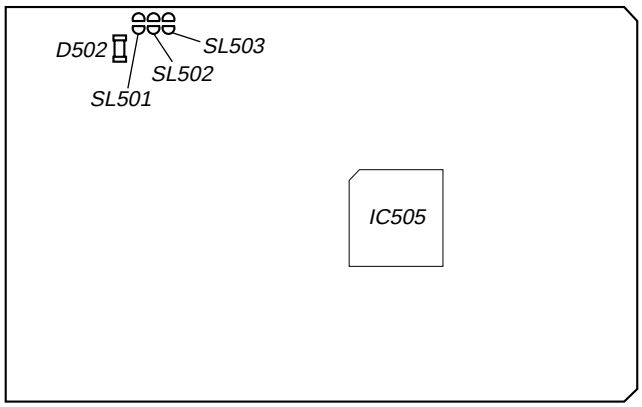
On this mode, the data of the color-bars signal as a picture signal and the 1 kHz sine wave signal as a sound signal are output by the mechanism controller (IC502) for the video CD signal check. When measurement of the voltage and waveform on the VIDEO board, perform it in this mode.

For reference, the color-bars signal can be observed at J302 (VIDEO OUT) and the sound signal can be observed at J101 (VIDEO/MD (AUDIO) OUT) using an oscilloscope.

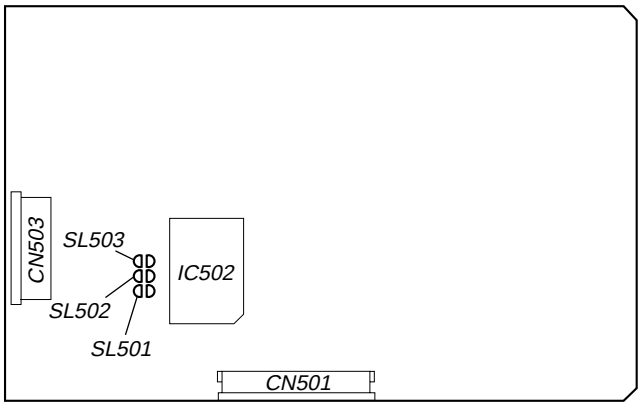
Procedure:

1. Short the both ends of the land of SL503 of the VIDEO board.
2. Turn the power on. Press the FUNCTION button to select CD.
3. The color-bars appears when the CD is in stop status, and it disappears when the CD goes in play status.
4. After measuring, remove the lead wire connected.

– VIDEO board (Side A) –



– VIDEO board (Side B) –



SECTION 5
MECHANICAL ADJUSTMENTS

Precaution

1. Clean the following parts with a denatured alcohol-moistened swab:
   record/playback heads, erase head, capstan, pinch rollers, rubber belts, idlers
2. Demagnetize the record/playback head with a head demagnetizer.
3. Do not use a magnetized screwdriver for the adjustments.
4. After the adjustments, apply suitable locking compound to the parts adjusted.
5. The adjustments should be performed with the rated power supply voltage unless otherwise noted.

Torque Measurement

Mode	Torque meter	Meter reading
FWD	CQ-102C	31 to 71 g • cm (0.43 – 0.98 oz • inch)
FWD back tension	CQ-102C	2 to 6 g • cm (0.03 – 0.08 oz • inch)
REV	CQ-102RC	31 to 71 g • cm (0.43 – 0.98 oz • inch)
REV back tension	CQ-102RC	2 to 6 g • cm (0.03 – 0.08 oz • inch)
FF/REW	CQ-201B	71 to 143 g • cm (0.99 – 1.99 oz • inch)
FWD tension	CQ-403A	100 g or more (3.53 oz or more)
REV tension	CQ-403R	100 g or more (3.53 oz or more)

SECTION 6
ELECTRICAL ADJUSTMENTS

DECK SECTION 0 dB = 0.775 V

1. Demagnetize the record/playback head with a head demagnetizer.
2. Do not use a magnetized screwdriver for the adjustments.
3. After the adjustments, apply suitable locking compound to the parts adjust.
4. The adjustments should be performed with the rated power supply voltage unless otherwise noted.
5. The adjustments should be performed in the order given in this service manual. (As a general rule, playback circuit adjustment should be completed before performing recording circuit adjustment.)
6. The adjustments should be performed for both L-CH and R-CH.
7. Switches and controls should be set as follows unless otherwise specified.
8. Set to the DOLBY NR OFF.
9. Set to the test mode.
   (1) Press the I/⏻ button to turn the power ON.
   (2) Select the function “TAPE A or B”.
   (3) Press the button of ■ , ENTER/NEXT, and DISC 3 simultaneously, to set the tape deck test mode and blink the indicator of disc tray number on the fluorescent indicator tube.
   (4) To exit from the test mode, press the I/⏻ button.

• Test Tape

Tape	Signal	Used for
P-4-A100	10 kHz, – 10 dB	Azimuth Adjustment
WS-48B	3 kHz, 0 dB	Tape Speed Adjustment
P-4-L300	315 Hz, 0 dB	Level Adjustment

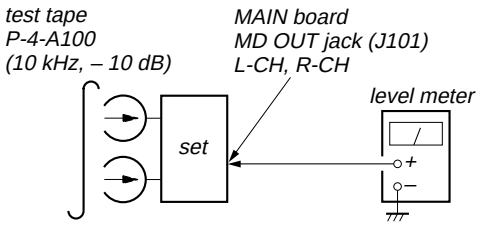
Record/Playback Head Azimuth Adjustment

DECK A **DECK B**

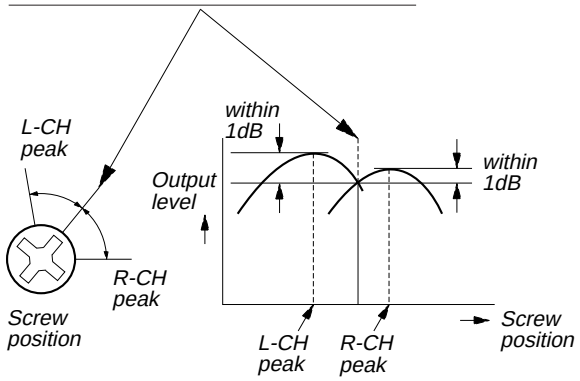
Note: Perform this adjustments for both decks

Procedure:

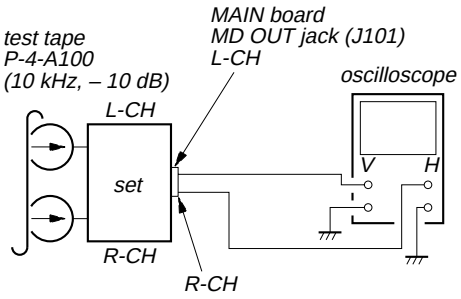
1. Mode: Playback (FWD)

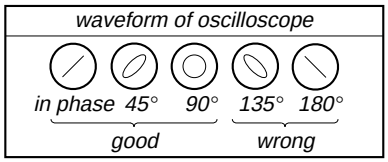


2. Turn the adjustment screw and check output peaks. If the peaks do not match for L-CH and R-CH, turn the adjustment screw so that outputs match within 1dB of peak.



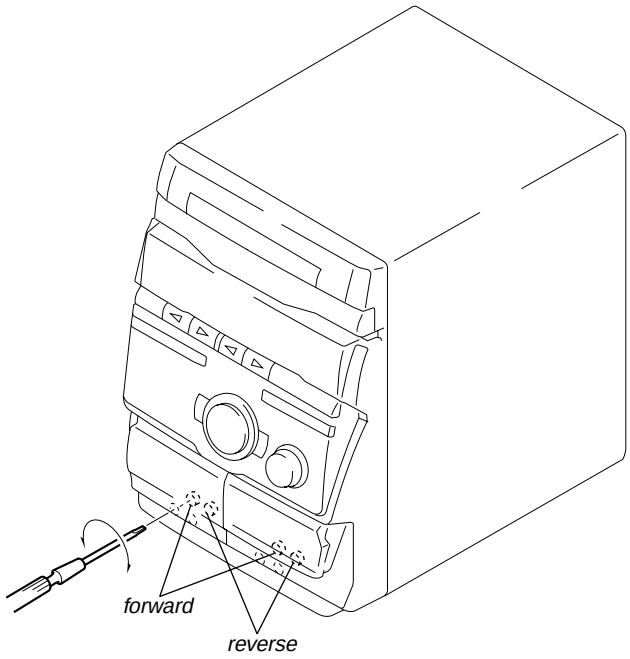
3. Mode: Playback





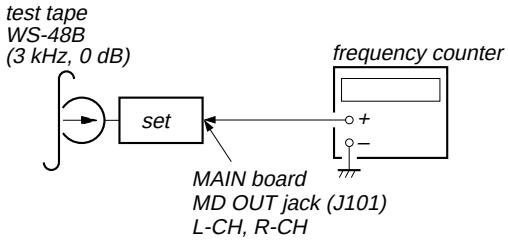
4. Repeat step 1 to 3 in playback (REV) mode.
5. After the adjustments, apply suitable locking compound to the pats adjusted.

Adjustment Location: Playback Head (Deck A).
Record/Playback/Erase Head (Deck B).



Tape Speed Adjustment DECK B

Mode: Playback

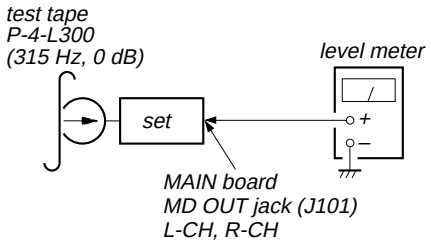


1. Insert the WS-48B into the deck B.
2. Press the ▶ button on the deck B.
3. Press the HI-DUB button in playback mode.
   Then at HIGH speed mode.
4. Adjust RV1001 on the LEAF SW board do that frequency counter reads 6,000 ± 180 Hz.
5. Press the HI-DUB button.
   Then back to NORMAL speed mode.
6. Adjust RV1002 on the LEAF SW board so that frequency counter reads 3,000 ± 90 Hz.

Adjustment Location: LEAF SW board
Sample value of Wow and Flutter: 0.3% or less W.RMS (JIS)
(WS-48B)

Playback level Adjustment DECK A DECK B

Procedure:
Mode: Playback



Deck A is RV311 (L-CH) and RV411 (R-CH), Deck B is RV301 (L-CH) and RV401 (R-CH) so that adjustment within specification values as follows.

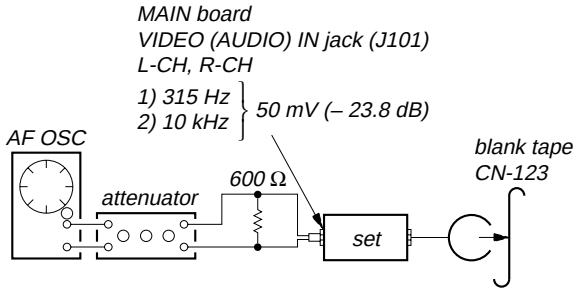
Specification Values:
J101 PB level: 301.5 to 338.3 mV (– 8.2 to – 7.2 dB) level difference between the channels: within ± 0.5 dB

Adjustment Location: AUDIO board

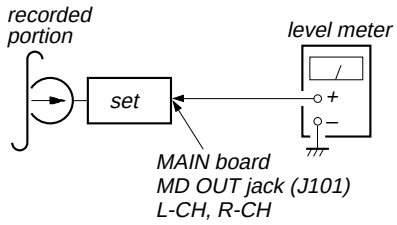
REC Bias Adjustment DECK B

Procedure:

1. Mode: Record
   FUNCTION: VIDEO



2. Mode: Playback



3. Confirm playback the signal recorded in step 1 become specification values as follows.
   If these values are out of specification values, adjust the RV341 (L-CH) and RV441 (R-CH) on the AUDIO board to repeat steps 1and 2.

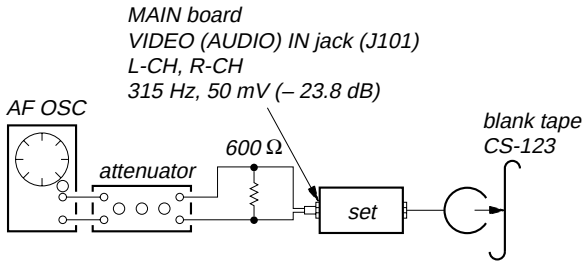
Specification values: Playback output of 315 Hz to playback output of 10 kHz: ± 0.5 dB

Adjustment Location: AUDIO board

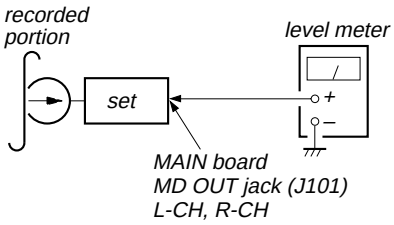
REC Level Adjustment DECK B

Procedure:

1. Mode: Record
   FUNCTION: VIDEO



2. Mode: Playback

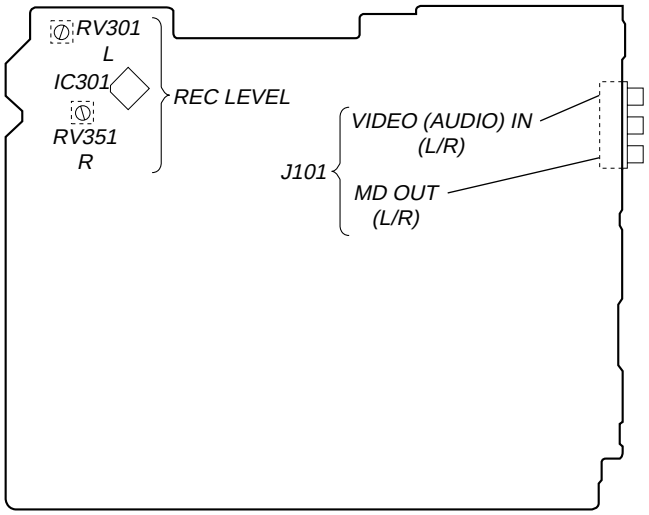


3. Confirm playback the signal recorded in step 1 become specification values as follows.
   If these values are out of specification values, adjust the RV301 (L-CH) and RV351 (R-CH) on the MAIN board to repeat steps 1 and 2.

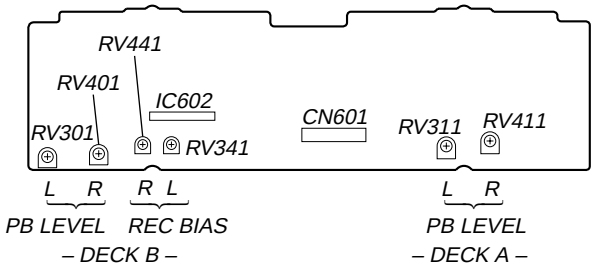
Specification values:
J101 PB level: 47.2 to 53.0 mV (– 24.3 to – 23.3 dB)

Adjustment Location: MAIN board

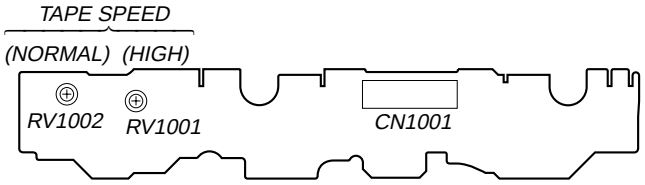
– MAIN BOARD (Conductor Side) –



– AUDIO BOARD (Component Side) –



– LEAF SW BOARD (Component Side) –

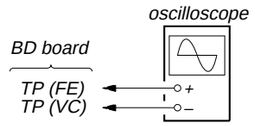


CD SECTION

Note:

1. CD Block is basically designed to operate without adjustment. Therefore, check each item in order given.
2. Use YEDS-18 disc (3-702-101-01) unless otherwise indicated.
3. Use an oscilloscope with more than 10 MΩ impedance.
4. Clean the object lens by an applicator with neutral detergent when the signal level is low than specified value with the following checks.

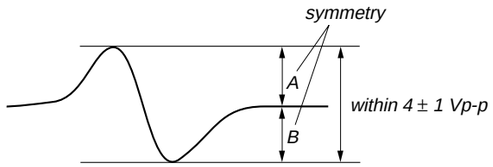
S-Curve Check



Procedure:

1. Connect oscilloscope to TP (FE).
2. Connect between TP (FE1) and TP (VC) by lead wire.
3. Connect between TP (AGCCON) and TP (GND) by lead wire.
4. Turn the power ON.
5. Load a disc (YEDS-18) and actuate the focus search. (In consequence of open and close the disc tray, actuate the focus search)
6. Cofirm that the oscilloscope waveform (S-curve) is symmetrical between A and B. And confirm peak to peak level within 4 ± 1 Vp-p.

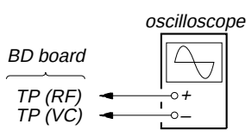
S-curve waveform



7. After check, remove the lead wire connected in step 2 and 3.

Note: • Try to measure several times to make sure than the ratio of A : B or B : A is more than 10 : 7.
• Take sweep time as long as possible and light up the brightness to obtain best waveform.

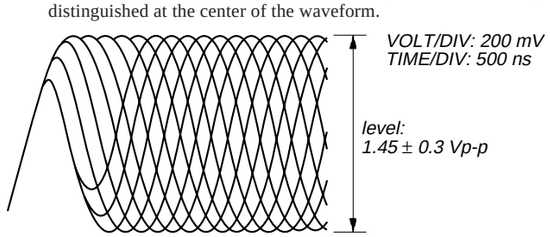
RF Level Check



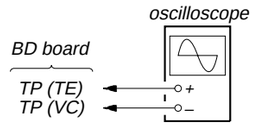
Procedure:

1. Connect oscilloscope to TP (RF).
2. Connect between TP (AGCCON) and TP (GND) by lead wire.
3. Turn the power ON.
4. Load a disc (YEDS-18) and press the ▶II button to play.
5. Confirm that the oscilloscope waveform is clear and check RF signal level is correct or not.
6. After check, remove the lead wire connected in step 2.

Note: Clear RF signal waveform means that the shape "◇" can be clearly distinguished at the center of the waveform.



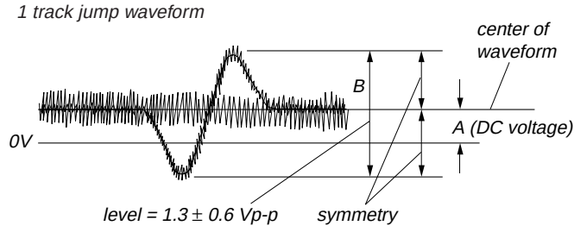
E-F Balance (1 Track Jump) Check



Procedure :

1. Connect oscilloscpe to TP (TE) and TP (VC).
2. Turn the power ON.
3. Load a disc (YEDS-18) and playback the number five track.
4. Press the ▶II (CD) button. (Becomes the 1 track jump mode)
5. Confirm that the level B and A (DC voltage) on the oscilloscope waveform.

1 track jump waveform

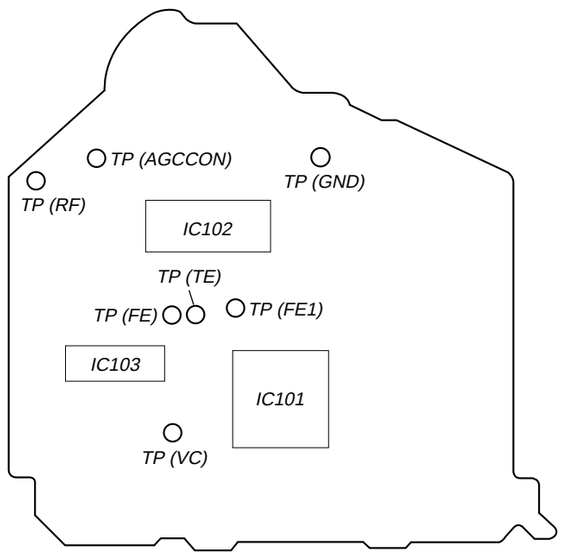


Specified level: $\frac{A}{B} \times 100$ = less than ± 22%

6. After check, remove the lead wire connected in step 1.

Checking Location:

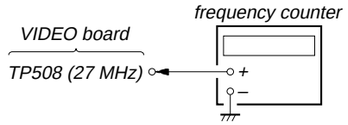
– BD BOARD (Side B) –



VIDEO SECTION

Frequency Adjustment

Connection:

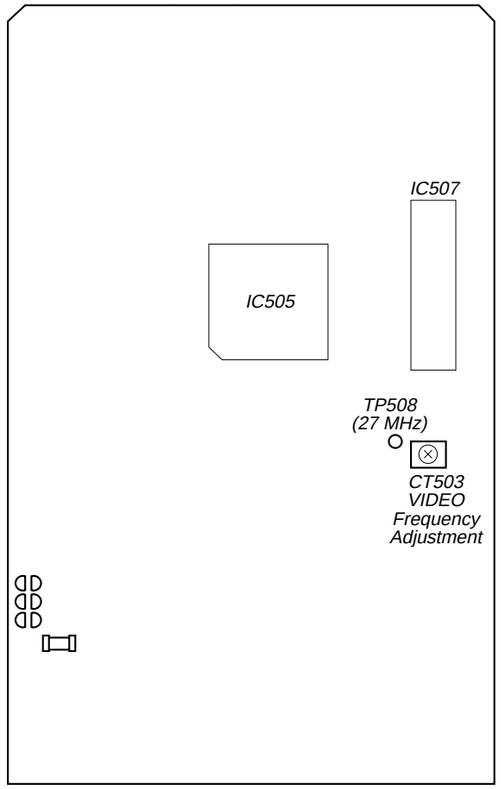


Procedure:

1. Connect the frequency counter to TP508 (27 MHz) on VIDEO board.
2. Turned power switch on.
3. Press the FUNCTION button to select the CD.
4. Adjust CT503 on the VIDEO board so that the frequency counter reading 27.0 MHz ± 80 Hz at stop status.

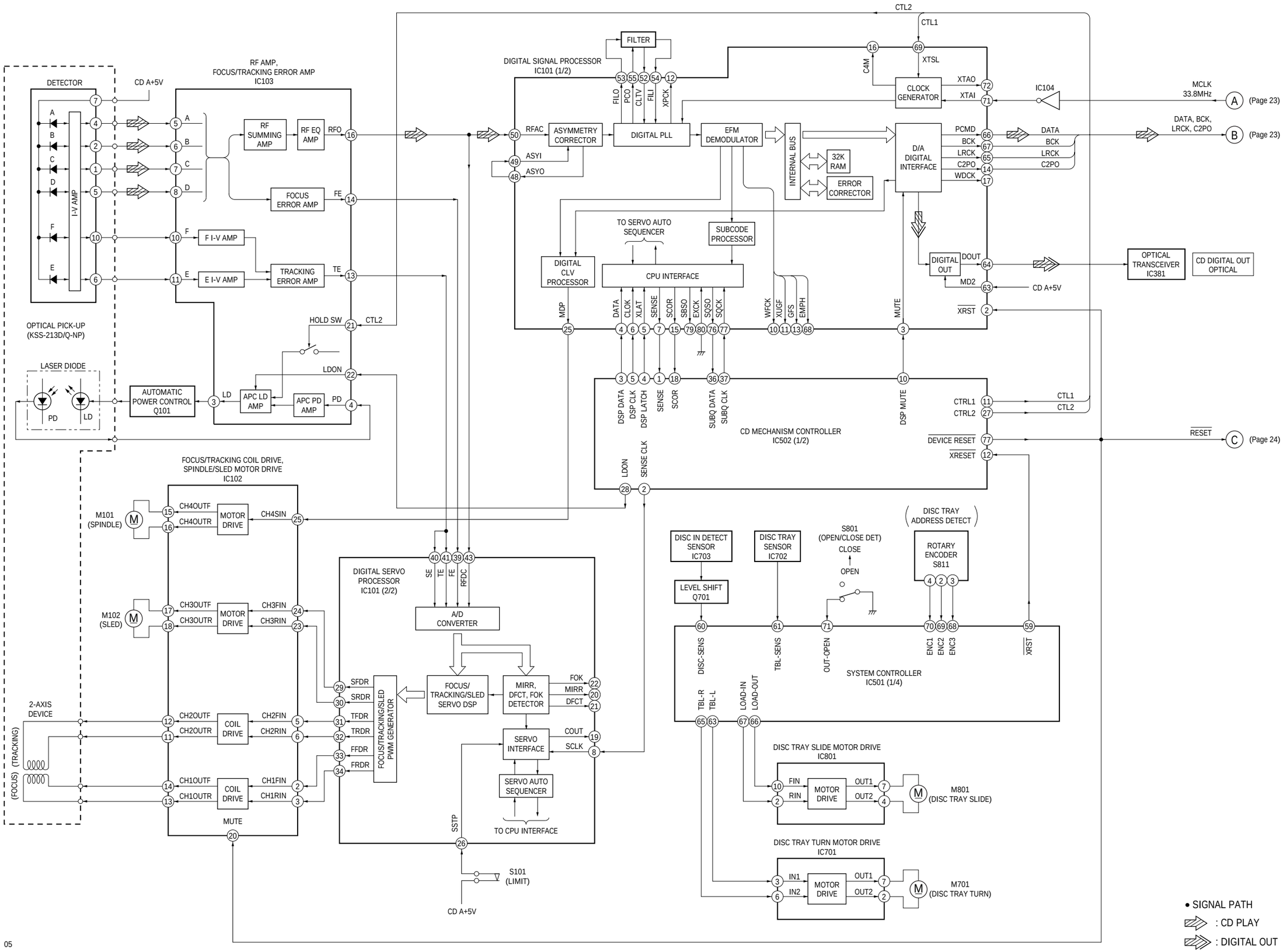
Adjustment Location:

– VIDEO Board (Side A) –



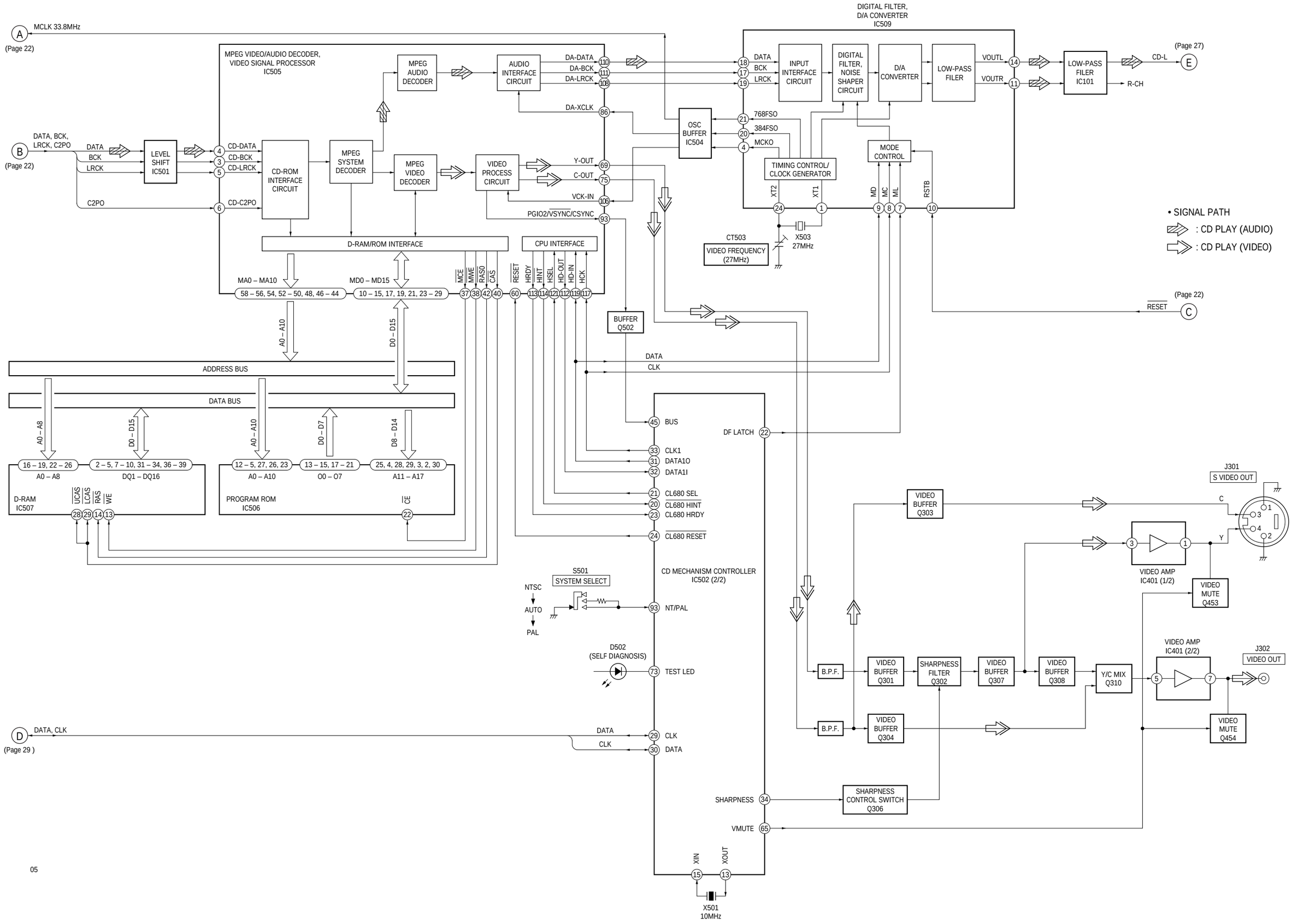
SECTION 7
DIAGRAMS

7-1. BLOCK DIAGRAM – CD SERVO Section –

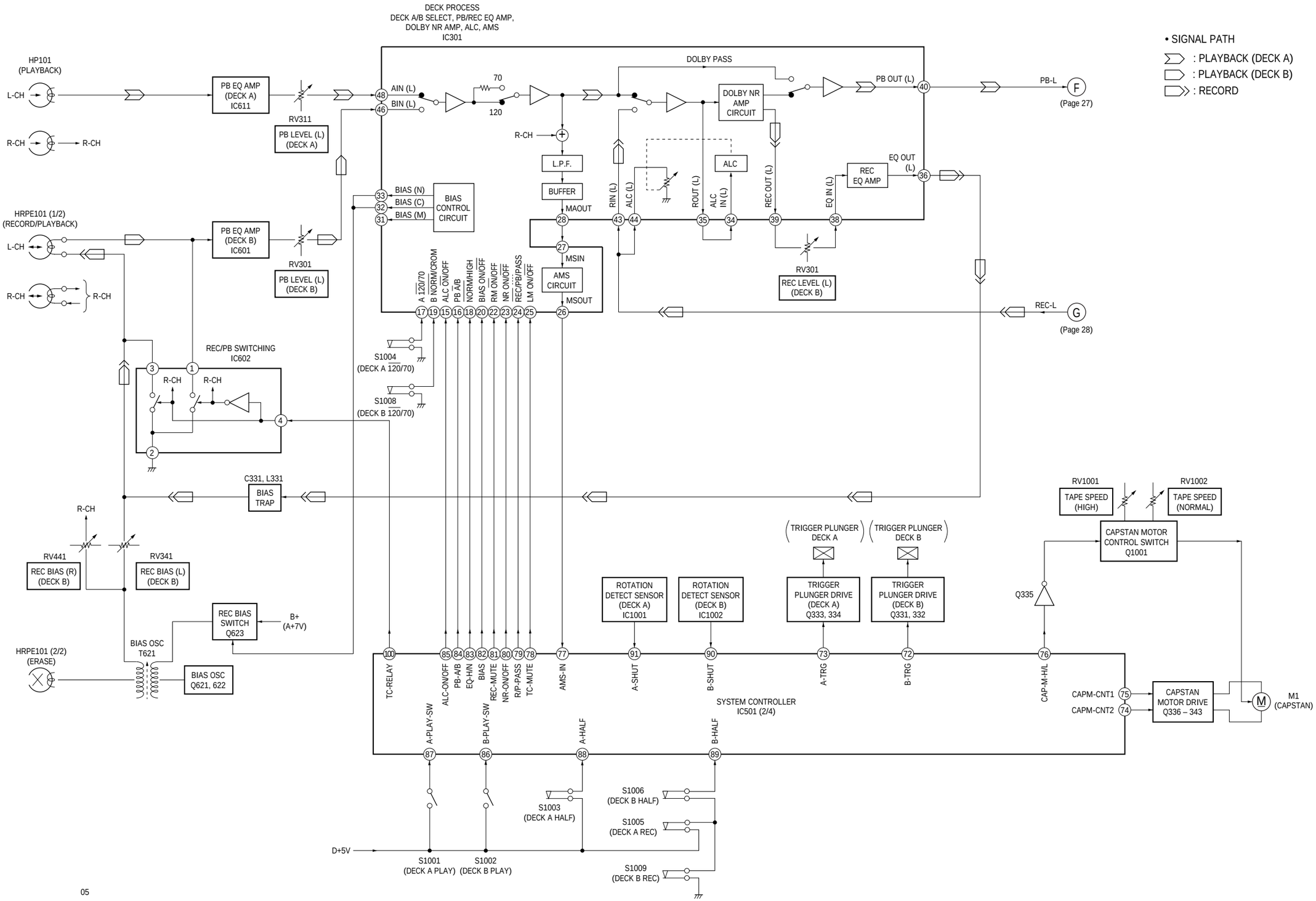


• SIGNAL PATH
: CD PLAY
: DIGITAL OUT

7-2. BLOCK DIAGRAM – AUDIO/VIDEO CD Section –

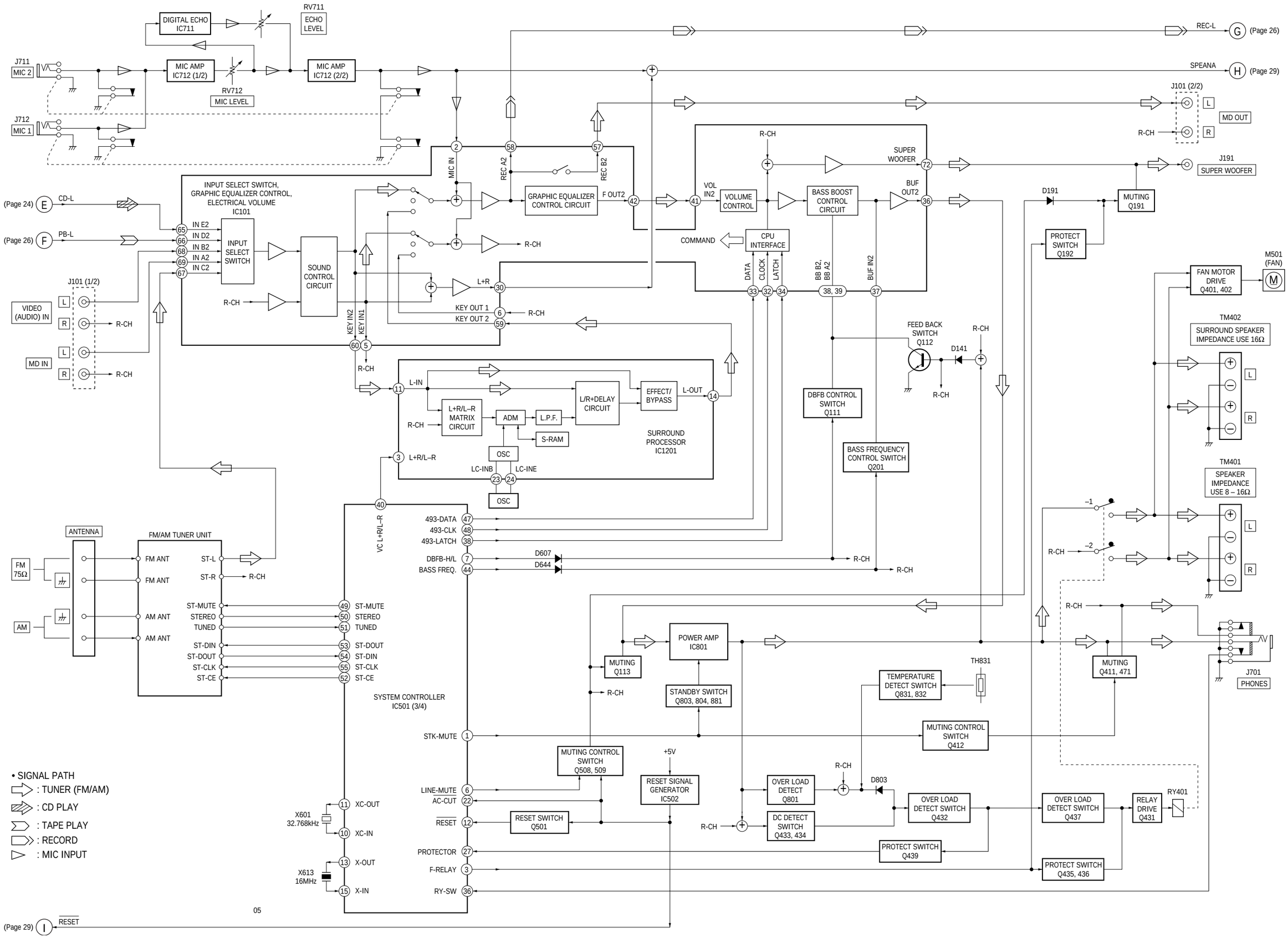


7-3. BLOCK DIAGRAM – TAPE DECK Section –

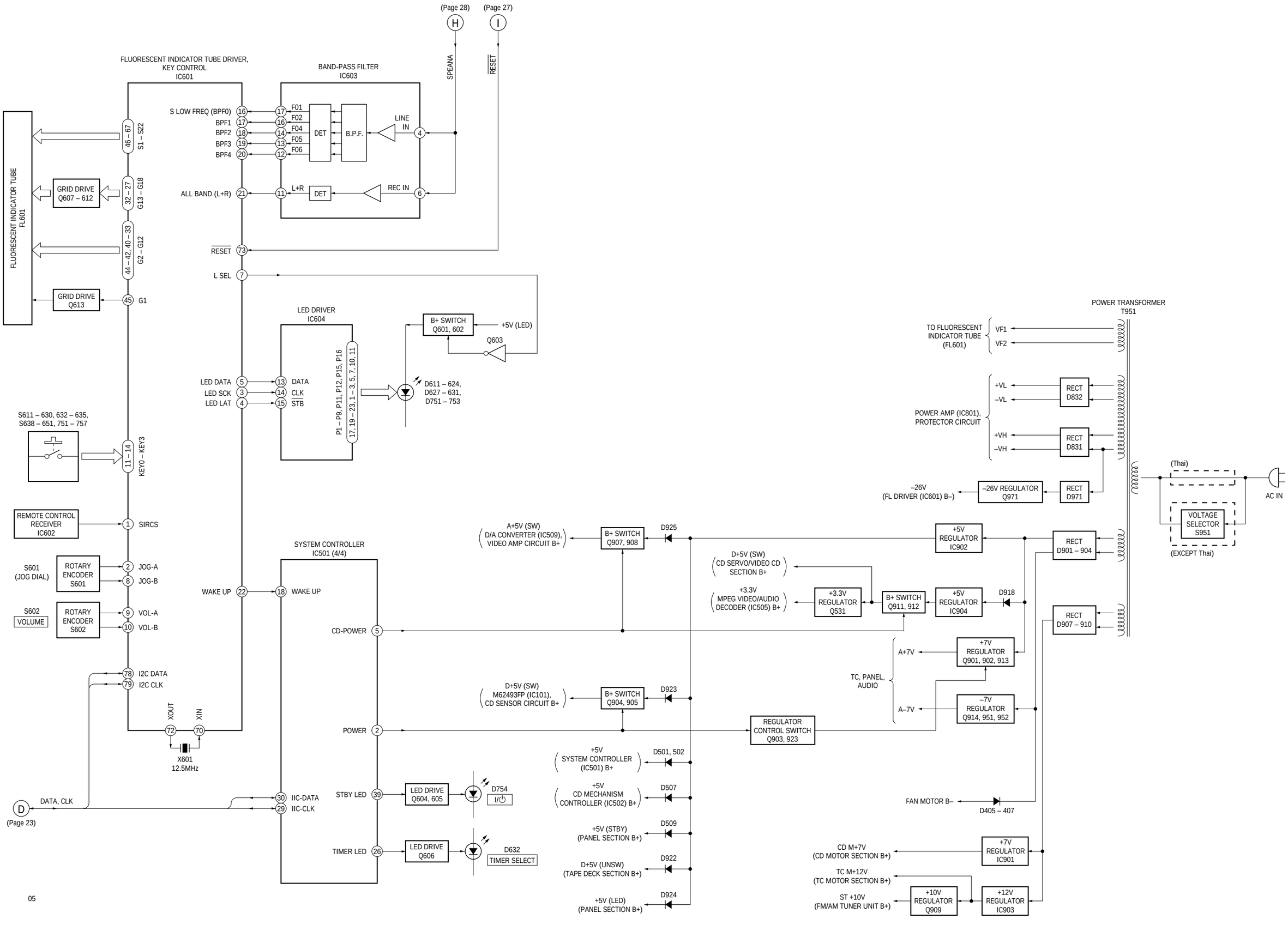


05

7-4. BLOCK DIAGRAM – MAIN Section –



7-5. BLOCK DIAGRAM – DISPLAY/KEY CONTROL/POWER SUPPLY Section –



7-6. NOTE FOR PRINTED WIRING BOARDS AND SCHEMATIC DIAGRAMS

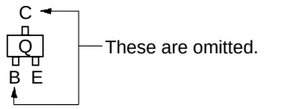
Note on Printed Wiring Board:

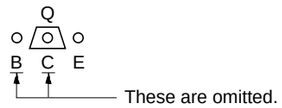
- ○——— : parts extracted from the component side.
- ■ : parts mounted on the conductor side.
- ▒▒▒ : Pattern from the side which enables seeing.

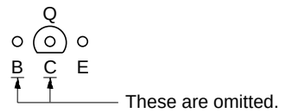
(The other layers' patterns are not indicated.)

Caution:	
Pattern face side: (Side B)	Parts on the pattern face side seen from the pattern face are indicated.
Parts face side: (Side A)	Parts on the parts face side seen from the parts face are indicated.

- Indication of transistor.







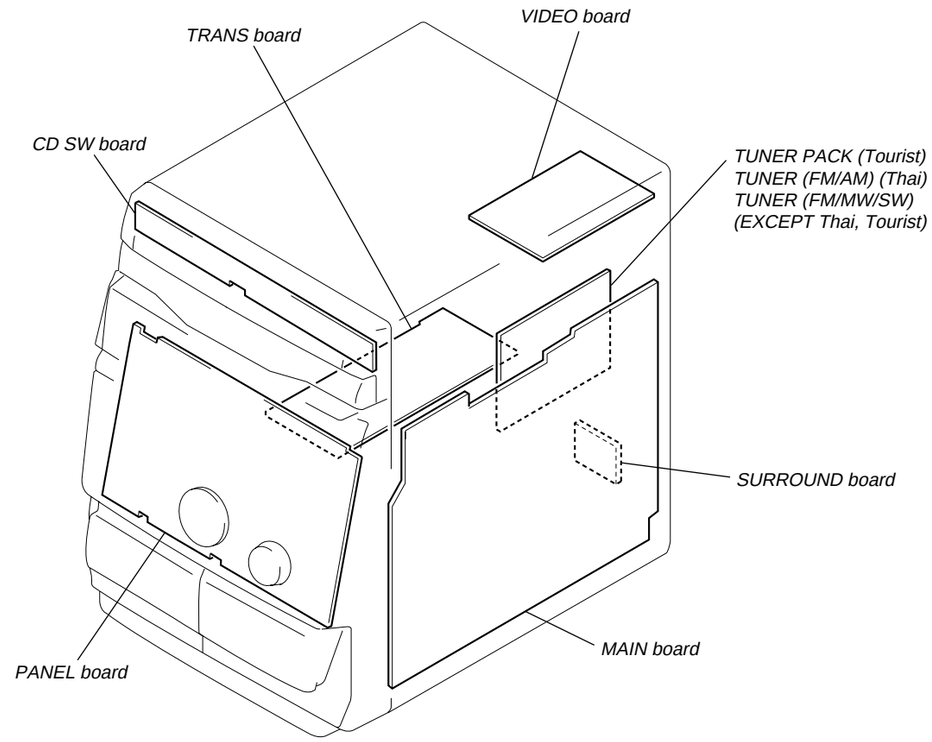
Note on Schematic Diagram:

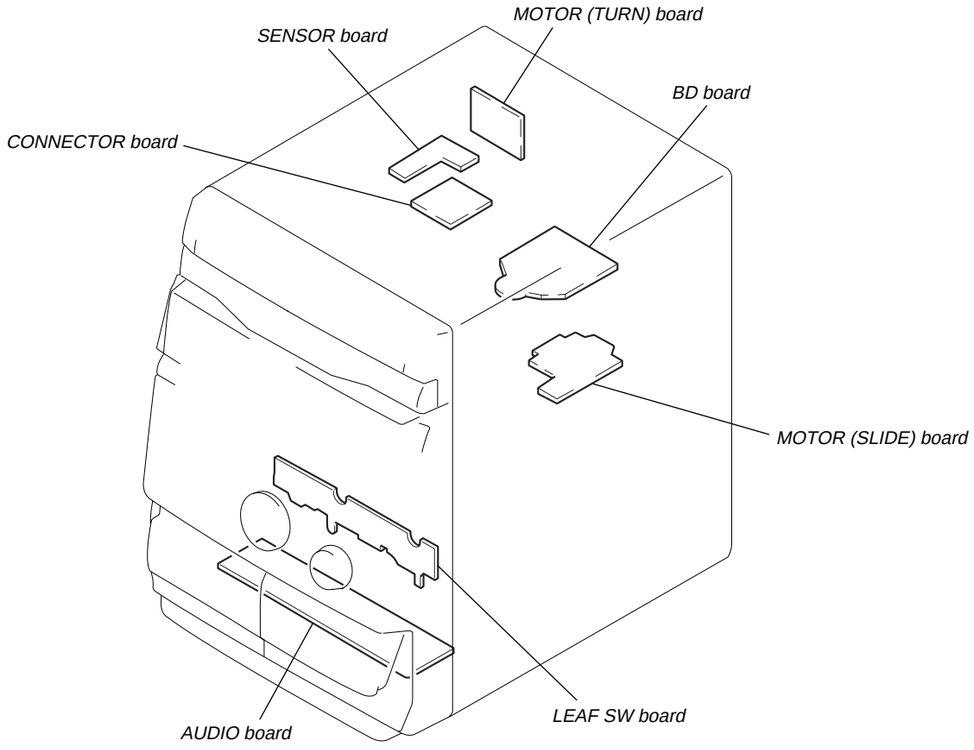
- All capacitors are in µF unless otherwise noted. pF: µµF 50 WV or less are not indicated except for electrolytics and tantalums.
- All resistors are in Ω and 1/4 W or less unless otherwise specified.
- △ : internal component.
- : nonflammable resistor.
- : fusible resistor.
- : panel designation.

Note: The components identified by mark ⚠ or dotted line with mark ⚠ are critical for safety.
Replace only with part number specified.

- B+ : B+ Line.
- B− : B– Line.
- : adjustment for repair.
- Voltages are taken with a VOM (Input impedance 10 MΩ). Voltage variations may be noted due to normal production tolerances.
- Waveforms are taken with a oscilloscope. Voltage variations may be noted due to normal production tolerances.
- Circled numbers refer to waveforms.
- Signal path.
  - : TUNER (FM/AM)
  - : PLAYBACK (DECK A)
  - : PLAYBACK (DECK B)
  - : RECORD
  - : CD PLAY (VIDEO)
  - : CD PLAY (AUDIO)
  - : DIGITAL OUT
  - : MIC INPUT
- Abbreviation
  - EA : Saudi Arabia model
  - HK : Hong Kong model
  - IA : Indonesian model
  - JE : Tourist model
  - MY : Malaysia model
  - SP : Singapore model
  - TH : Thai model
  - TW : Taiwan model

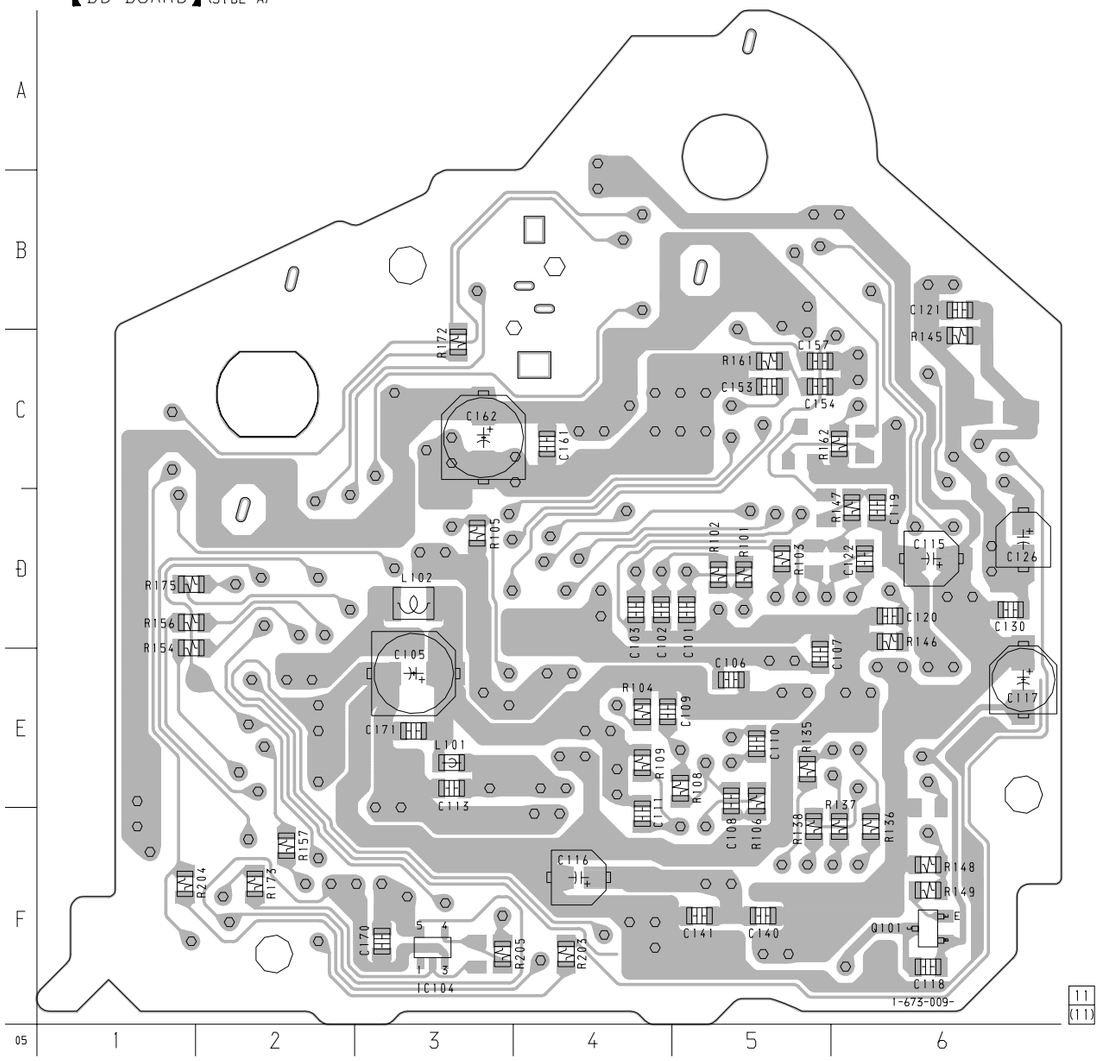
- **Circuit Boards Location**



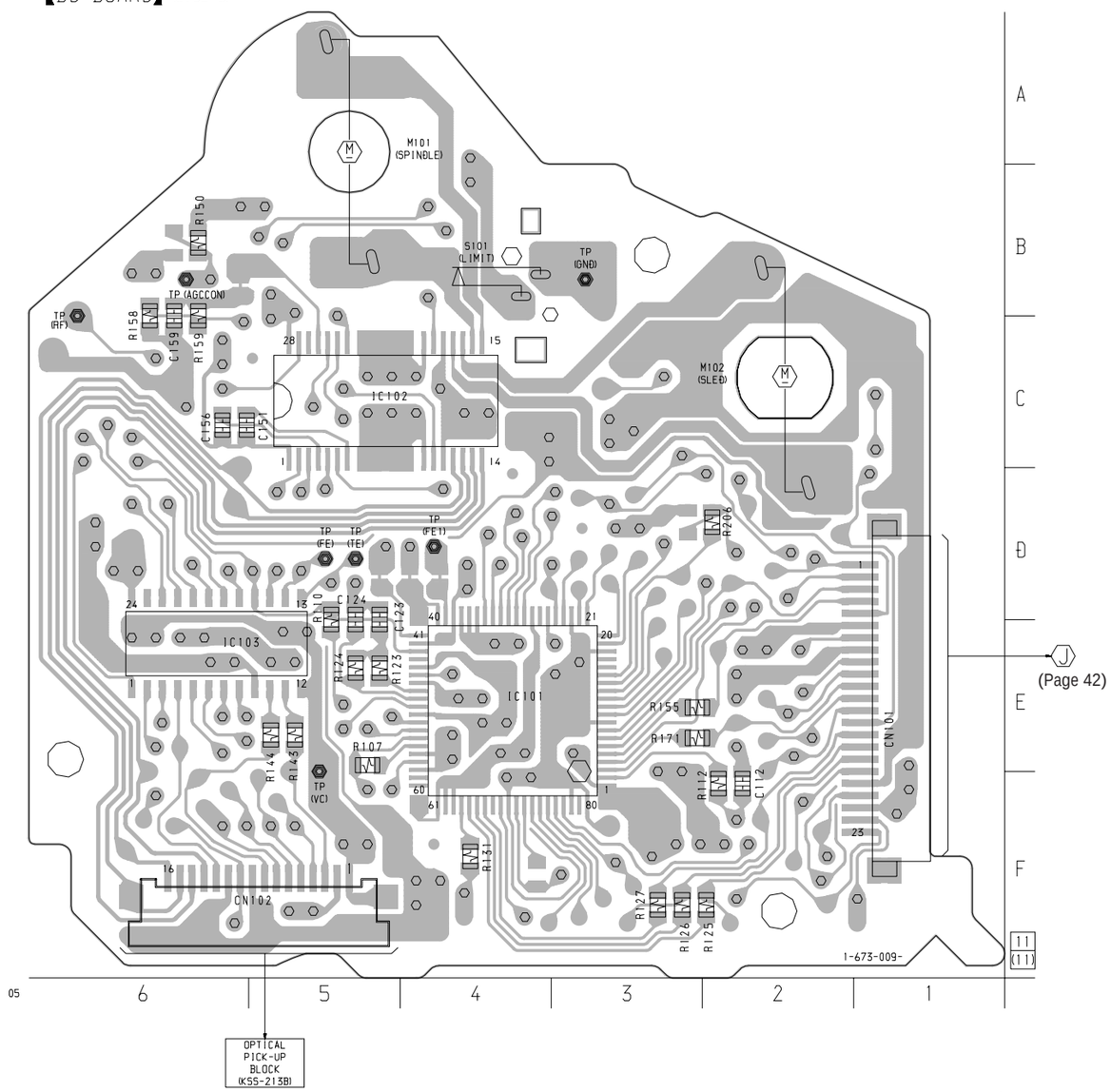


7-7. PRINTED WIRING BOARD – BD Board – • See page 32 for Circuit Boards Location.

【BD BOARD】(SIDE A)



【BD BOARD】(SIDE B)



- **Semiconductor Location (Side A)**

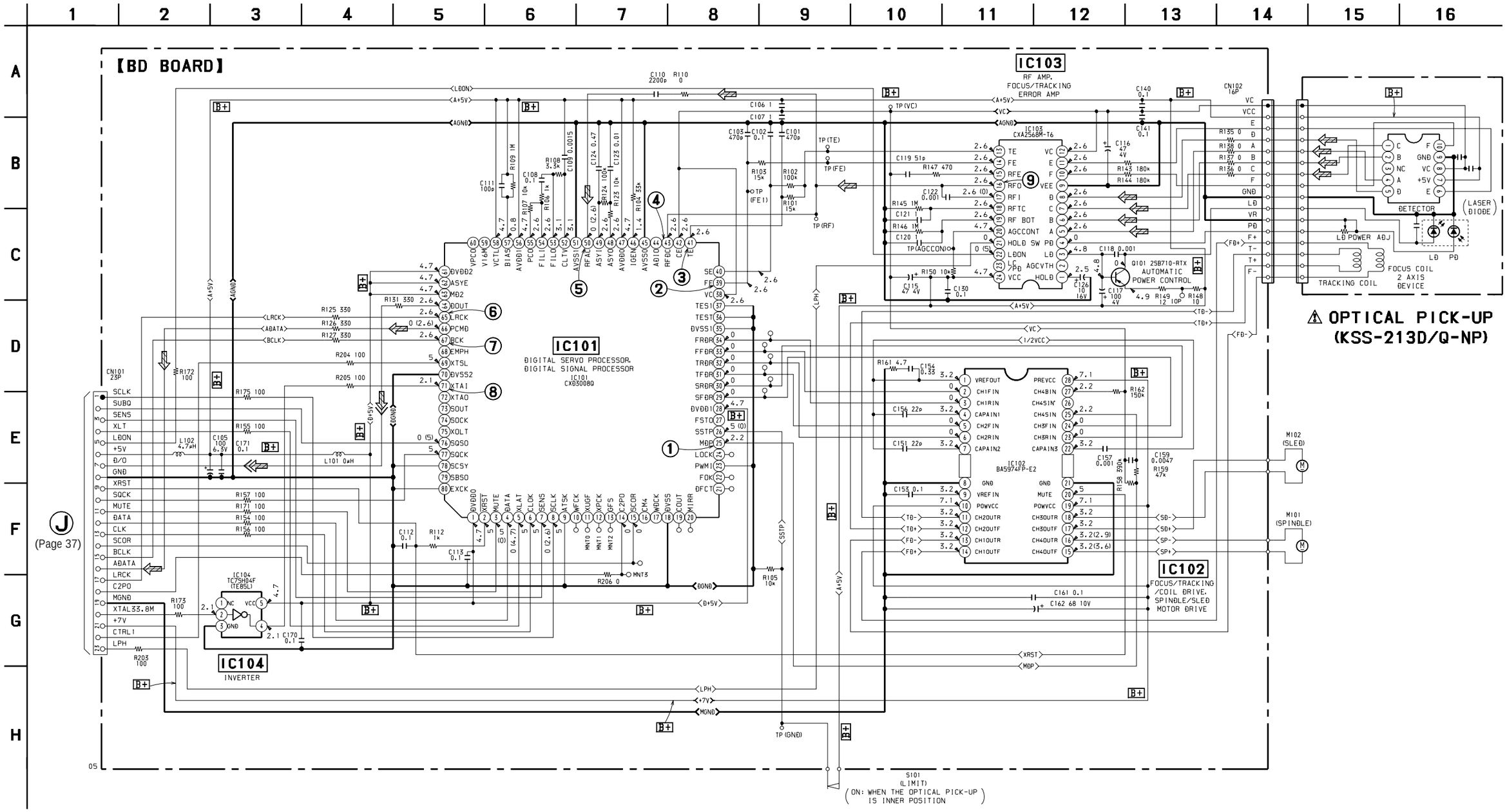
Ref. No.	Location
IC104	F-3
Q101	F-6

- **Semiconductor Location (Side B)**

Ref. No.	Location
IC101	E-4
IC102	C-5
IC103	E-6

7-8. SCHEMATIC DIAGRAM – BD Board –

• See page 75 for Waveforms. • See page 76 for IC Block Diagrams.

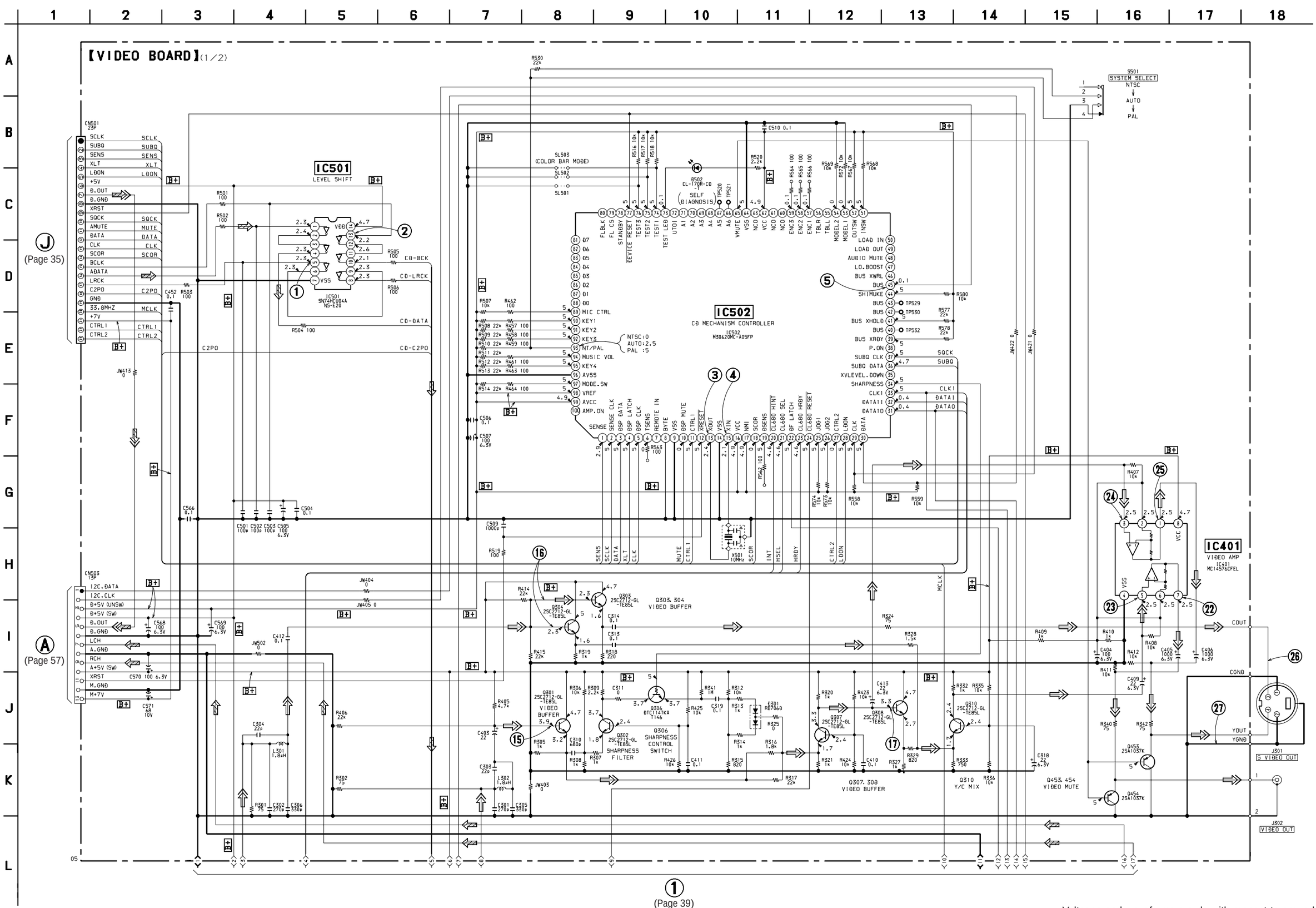


• Voltages and waveforms are dc with respect to ground under no-signal conditions.
no mark : CD STOP
( ) : CD PLAY

The components identified by mark ⚠ or dotted line with mark ⚠ are critical for safety.
Replace only with part number specified.

7-9. SCHEMATIC DIAGRAM – VIDEO Board (1/2) –

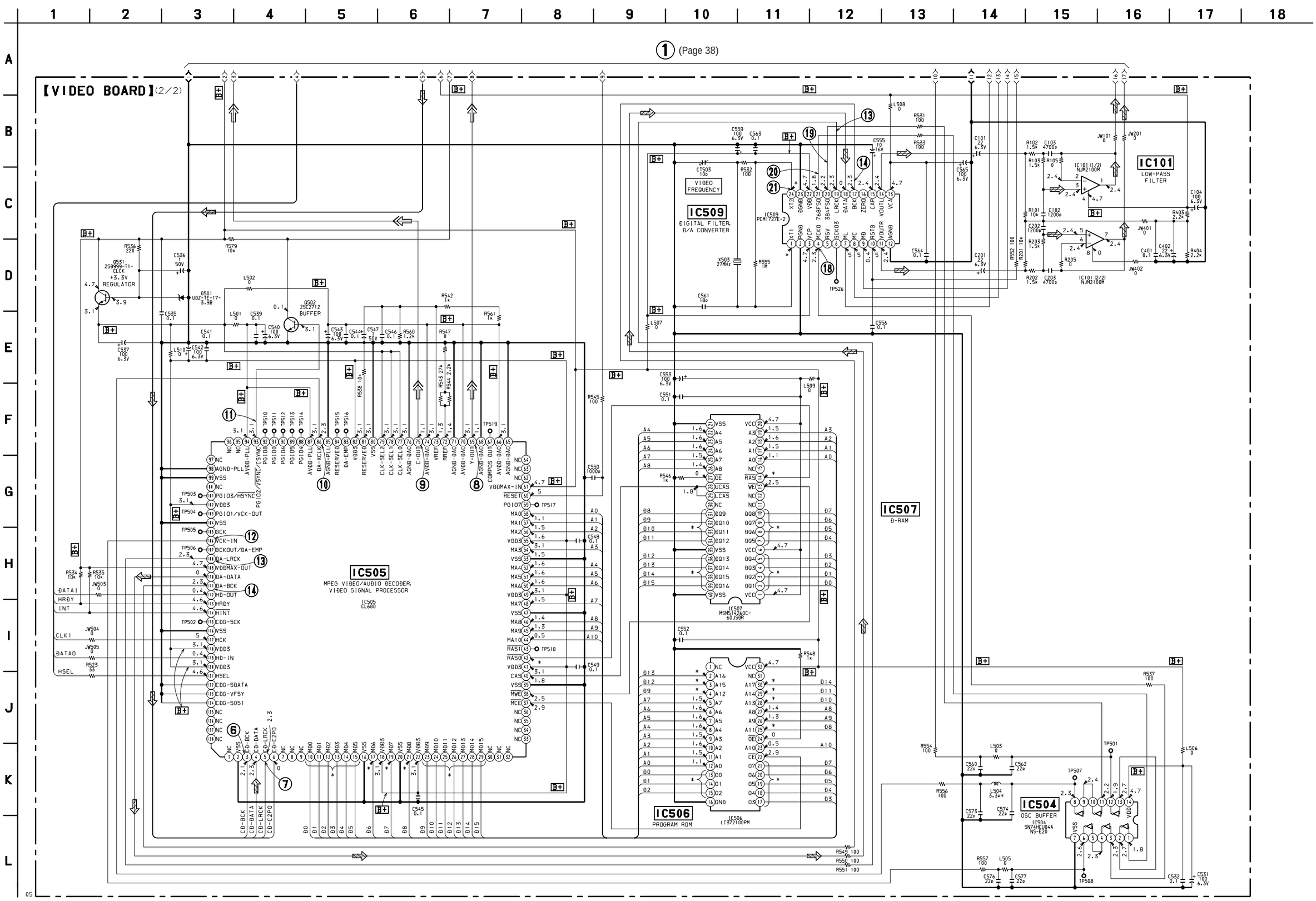
• See page 43 for Waveforms. • See page 78 for IC Block Diagram.



- Voltages and waveforms are dc with respect to ground under no-signal conditions.
  no mark : VIDEO CD PLAY

7-10. SCHEMATIC DIAGRAM – VIDEO Board (2/2) –

• See page 43 for Waveforms.

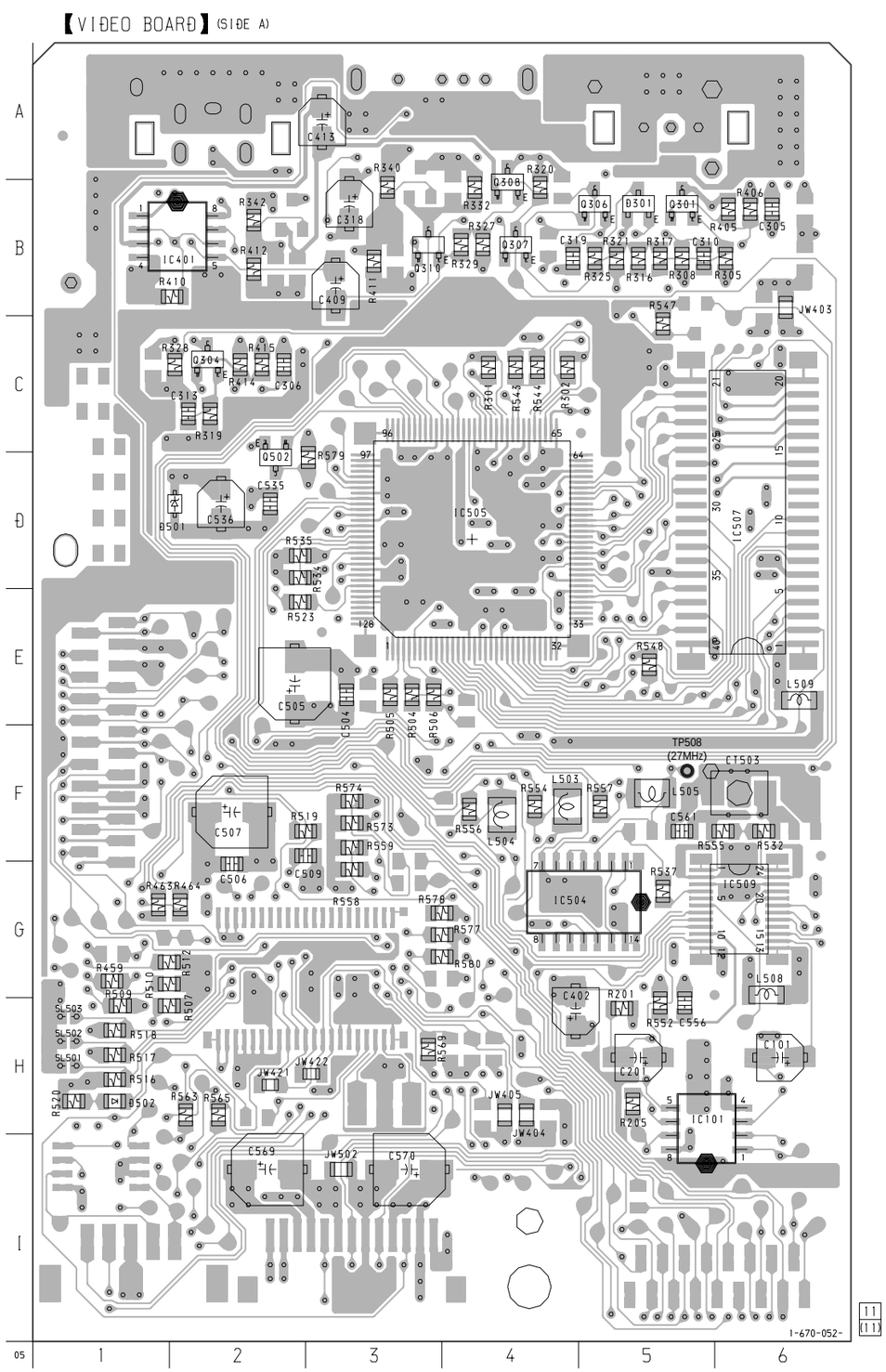


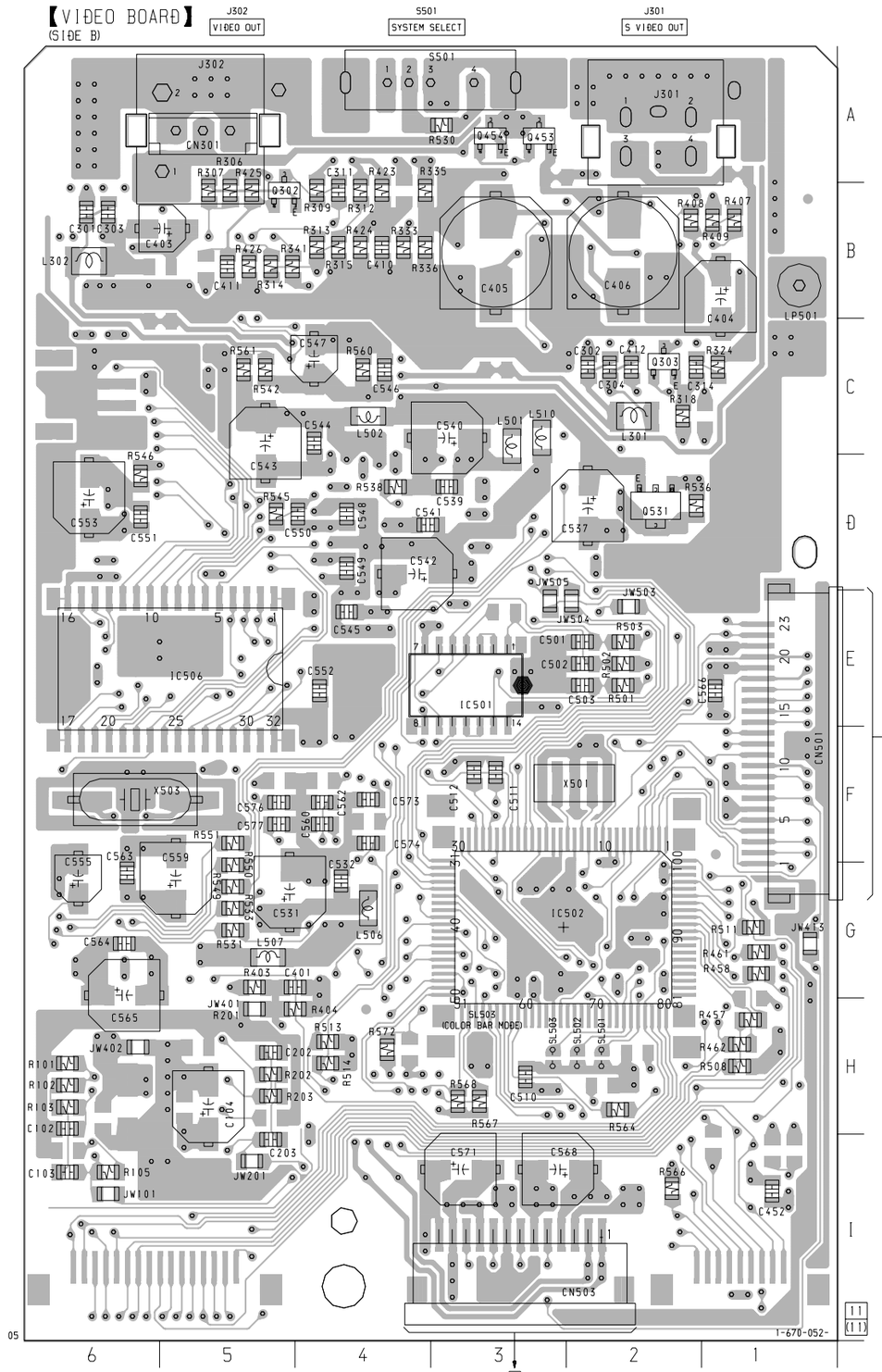
• Voltages and waveforms are dc with respect to ground under no-signal conditions.
no mark :VIDEO CD PLAY
＊ : Impossible to measure

7-11. PRINTED WIRING BOARD – VIDEO BOARD – • See page 32 for Circuit Boards Location.

• **Semiconductor Location (Side A)**

Ref. No.	Location
D301	B-5
D501	D-2
D502	H-1
IC101	H-5
IC401	B-2
IC504	G-4
IC505	D-4
IC507	D-6
IC509	G-6
Q301	B-5
Q304	C-2
Q306	B-5
Q307	B-4
Q308	B-4
Q310	B-3
Q502	D-2





• **Semiconductor Location (Side B)**

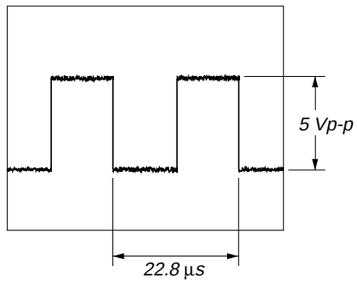
Ref. No.	Location
IC501	E-3
IC502	G-3
IC506	E-5
Q302	B-5
Q303	C-2
Q453	A-3
Q454	A-3
Q531	D-2

J (Page 34)

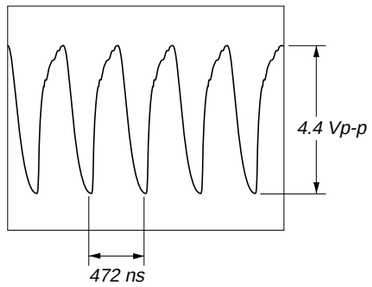
A (Page 55)

• Waveforms
– VIDEO Board –

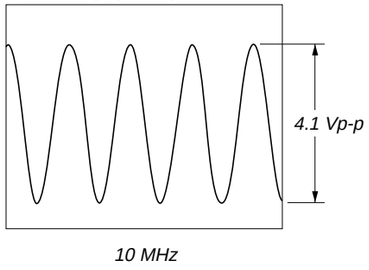
❶ IC501 ⑤ (LRCK)



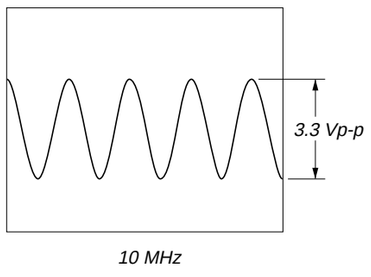
❷ IC501 ⑬ (BCLK)



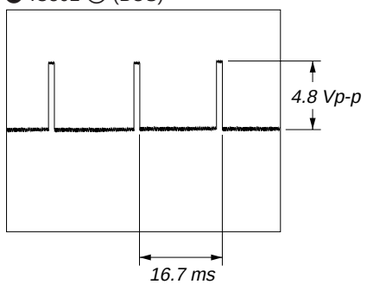
❸ IC502 ⑬ (XOUT)



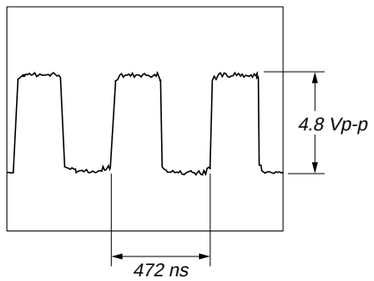
❹ IC502 ⑮ (XIN)



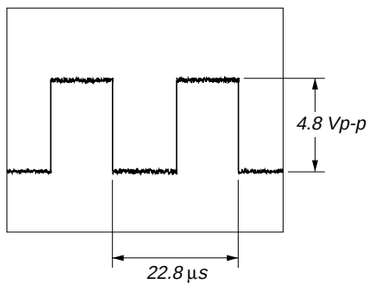
❺ IC502 ㊺ (BUS)



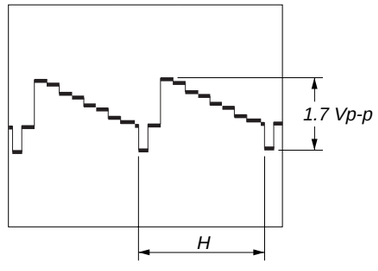
❻ IC505 ③ (CD-BCK)



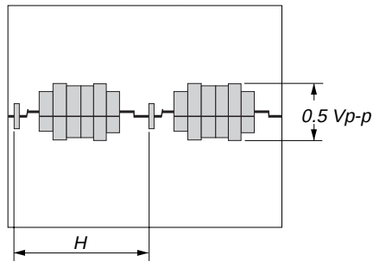
❼ IC505 ⑤ (CD-LRCK)



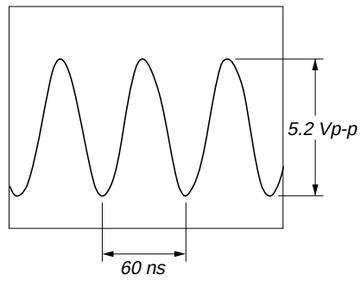
❽ IC505 ㊾ (Y-OUT)



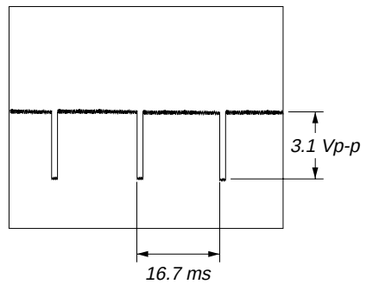
❾ IC505 ㉕ (C-OUT)



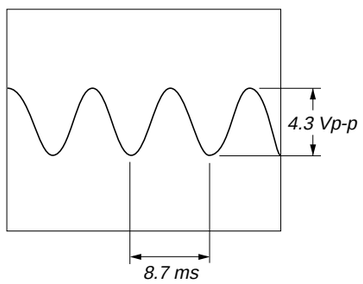
❿ IC505 ㊻ (DA-XCLK)



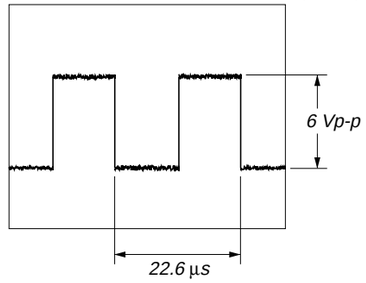
⓫ IC505 ㉝ (PGIO2/VSYNK/CSYNK)



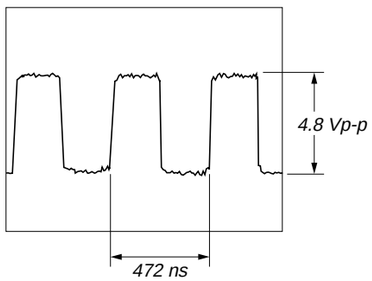
⓬ IC505 ㊿ (VCK-IN)



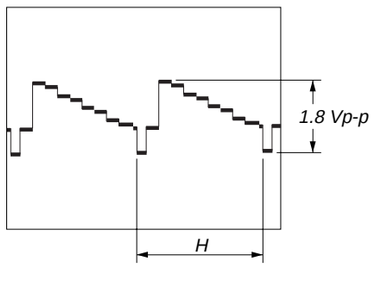
⓭ IC505 ㊽ (DA-LRCK), IC509 ⑲ (LRCK)



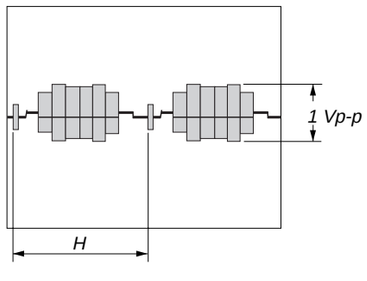
⓮ IC505 ㊶ (DA-BCK), IC509 ⑰ (BCK)



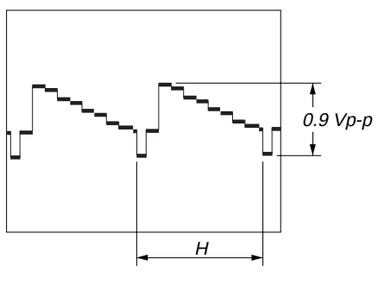
⓯ Q301 (Base)



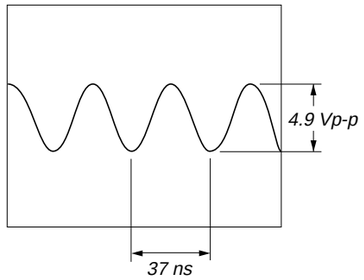
⓰ Q303, 304 (Base)



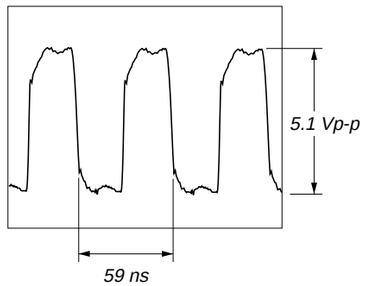
⓱ Q308 (Base)



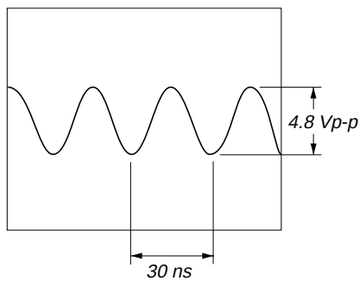
⓲ IC509 ④ (MCKO)



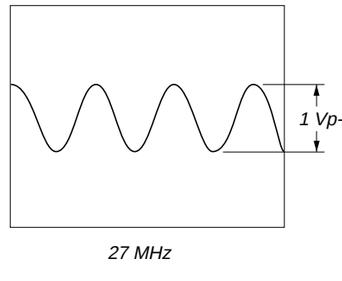
⓳ IC509 ⑳ (384FSO)



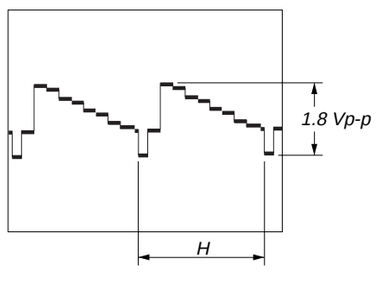
⓴ IC509 ㉑ (768FSO)



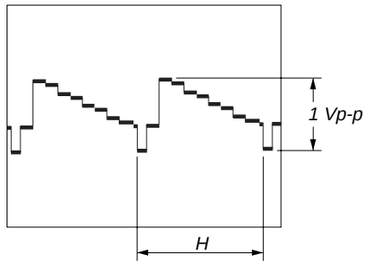
㉑ IC509 ㉔ (XT2)



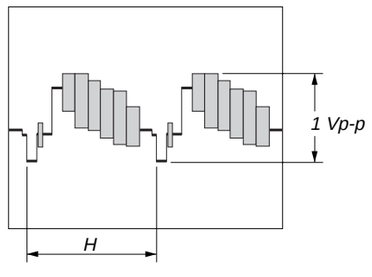
㉒ IC401 ⑦



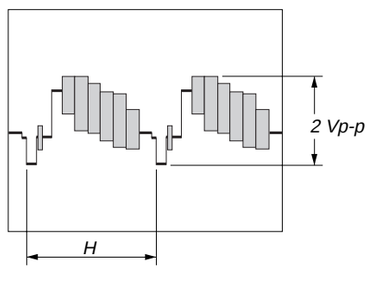
㉓ IC401 ⑤



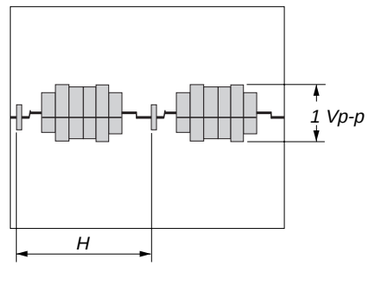
㉔ IC401 ③



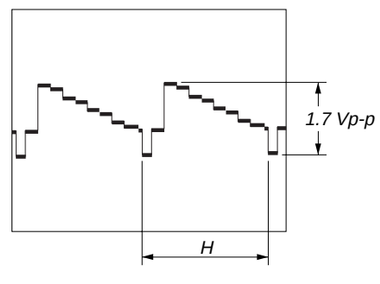
㉕ IC401 ①



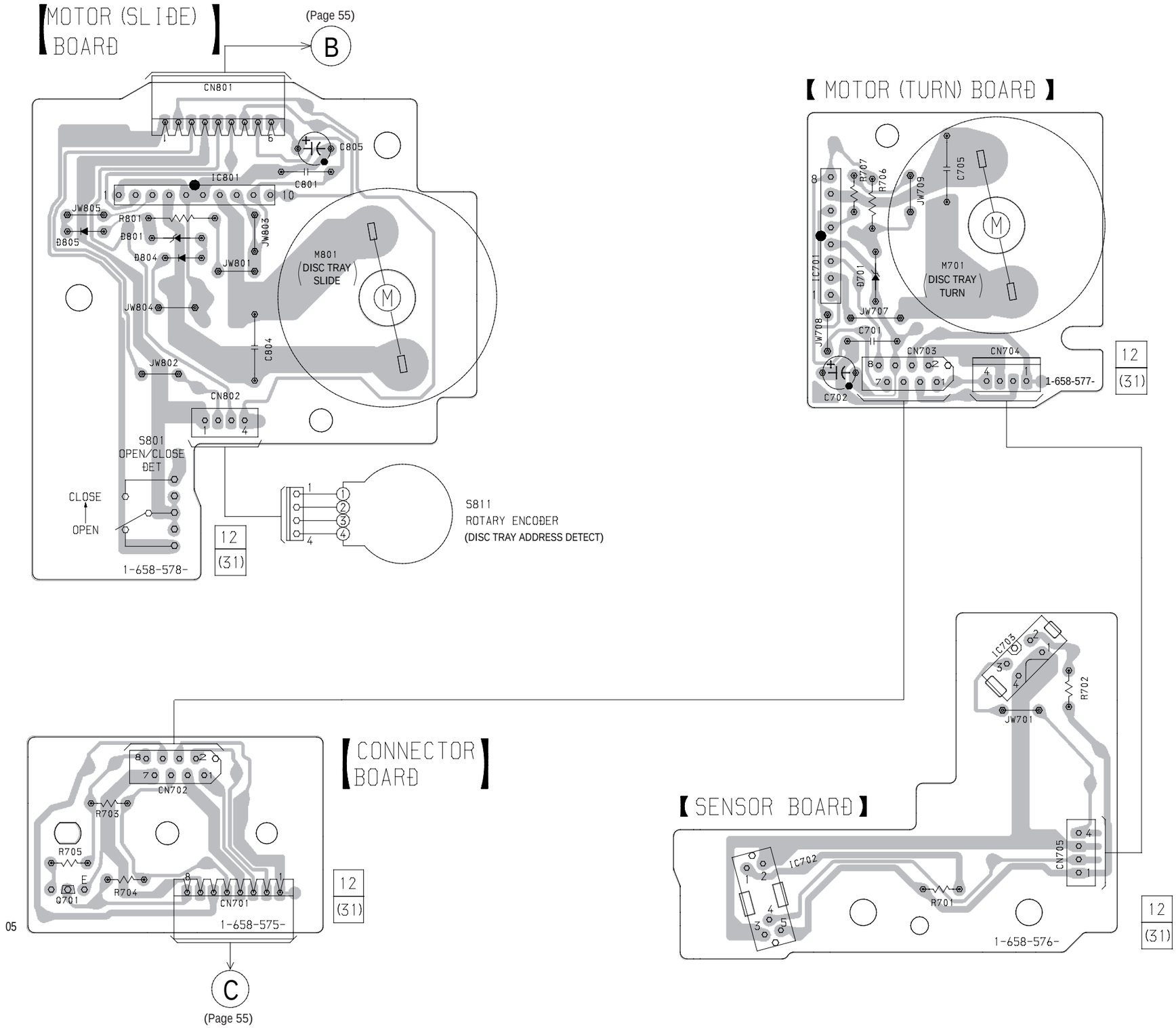
㉖ J301 ③ (COUT)



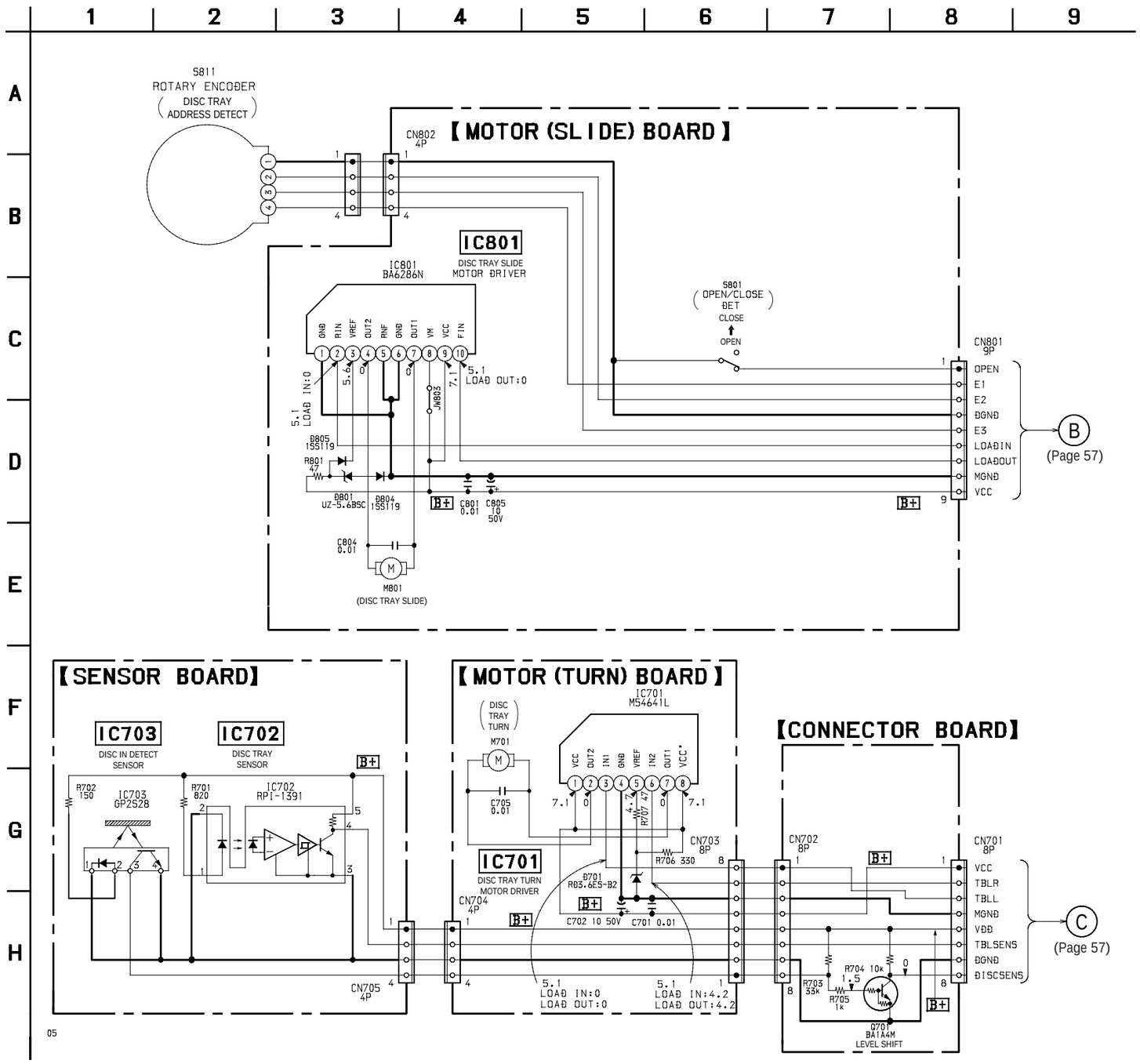
㉗ J301 ④ (YOUT)



7-12. PRINTED WIRING BOARDS – CD MOTER Section – • See page 32 for Circuit Boards Location.

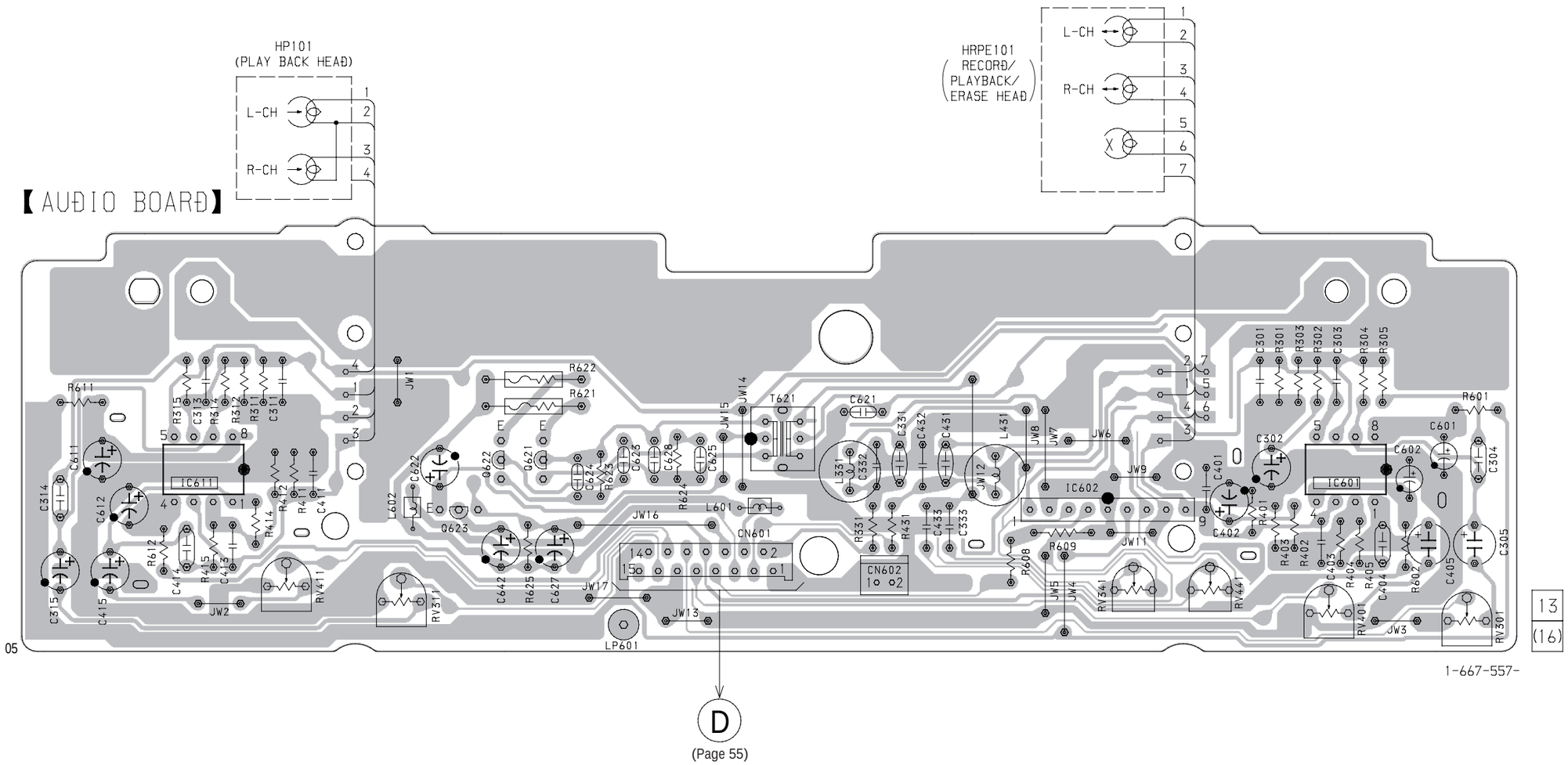


7-13. SCHEMATIC DIAGRAM – CD MOTOR Section – • See page 77 for IC Block Diagrams.

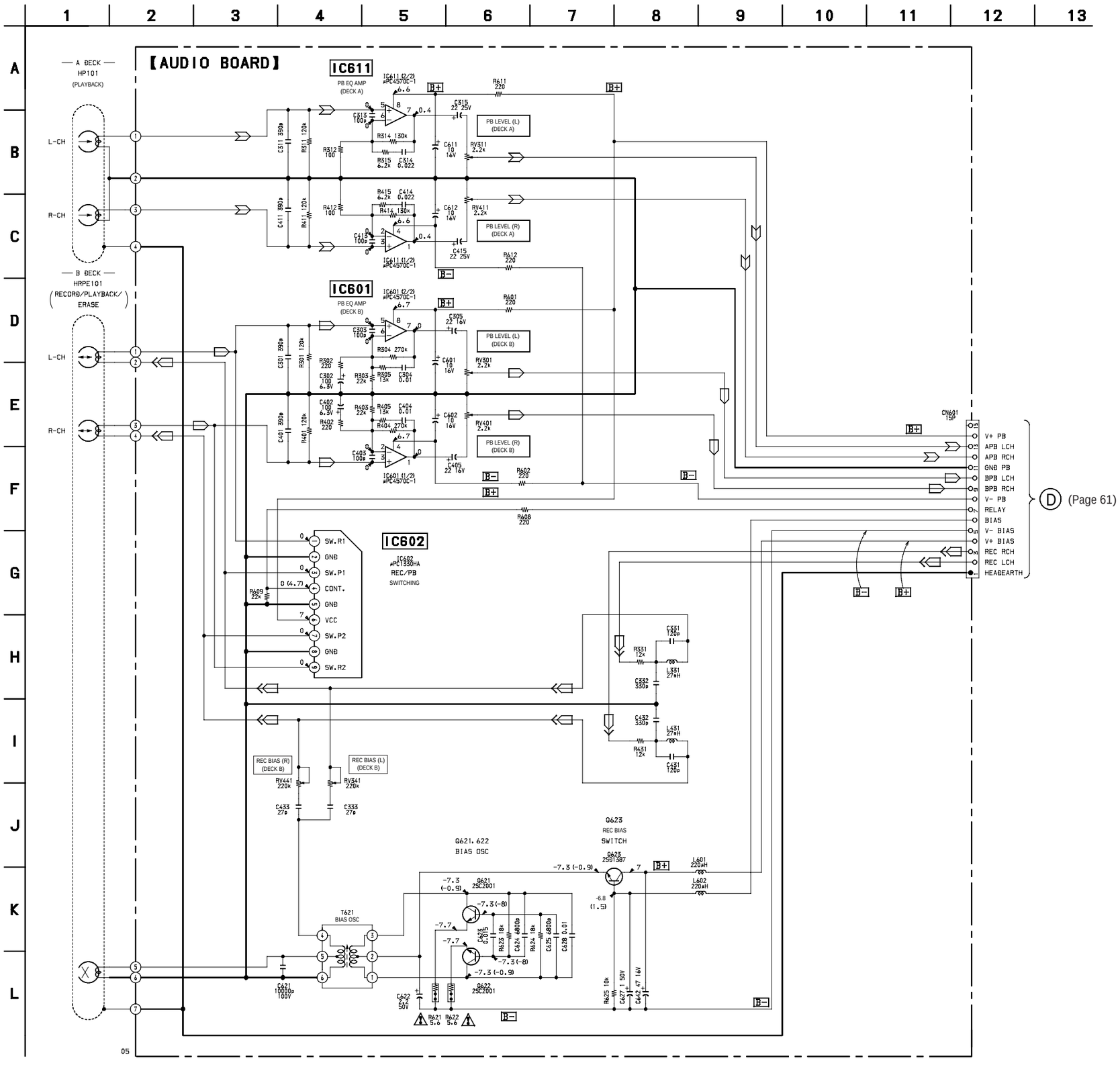


• Voltages are dc with respect to ground under no-signal conditions.
no mark : CD STOP

7-14. PRINTED WIRING BOARD – AUDIO Board – • See page 28 for Circuit Boards Location.



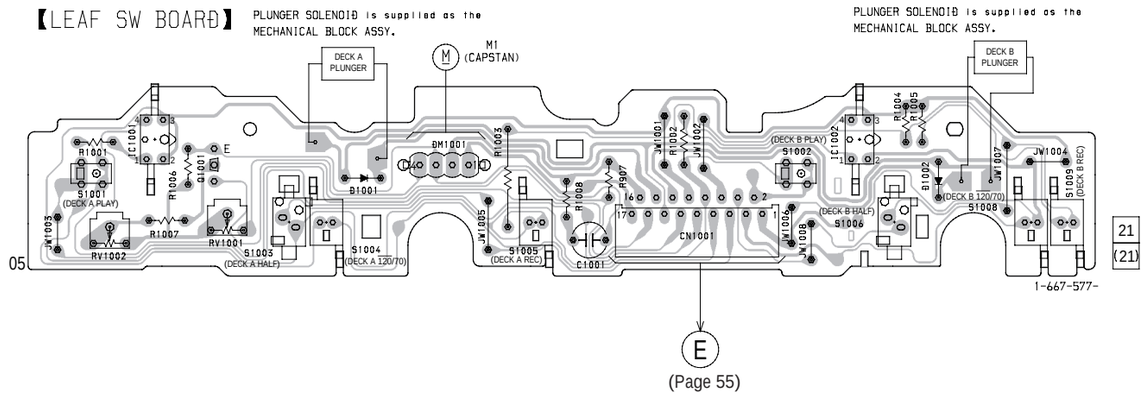
7-15. SCHEMATIC DIAGRAM – AUDIO Board – • See page 79 for IC Block Diagram.



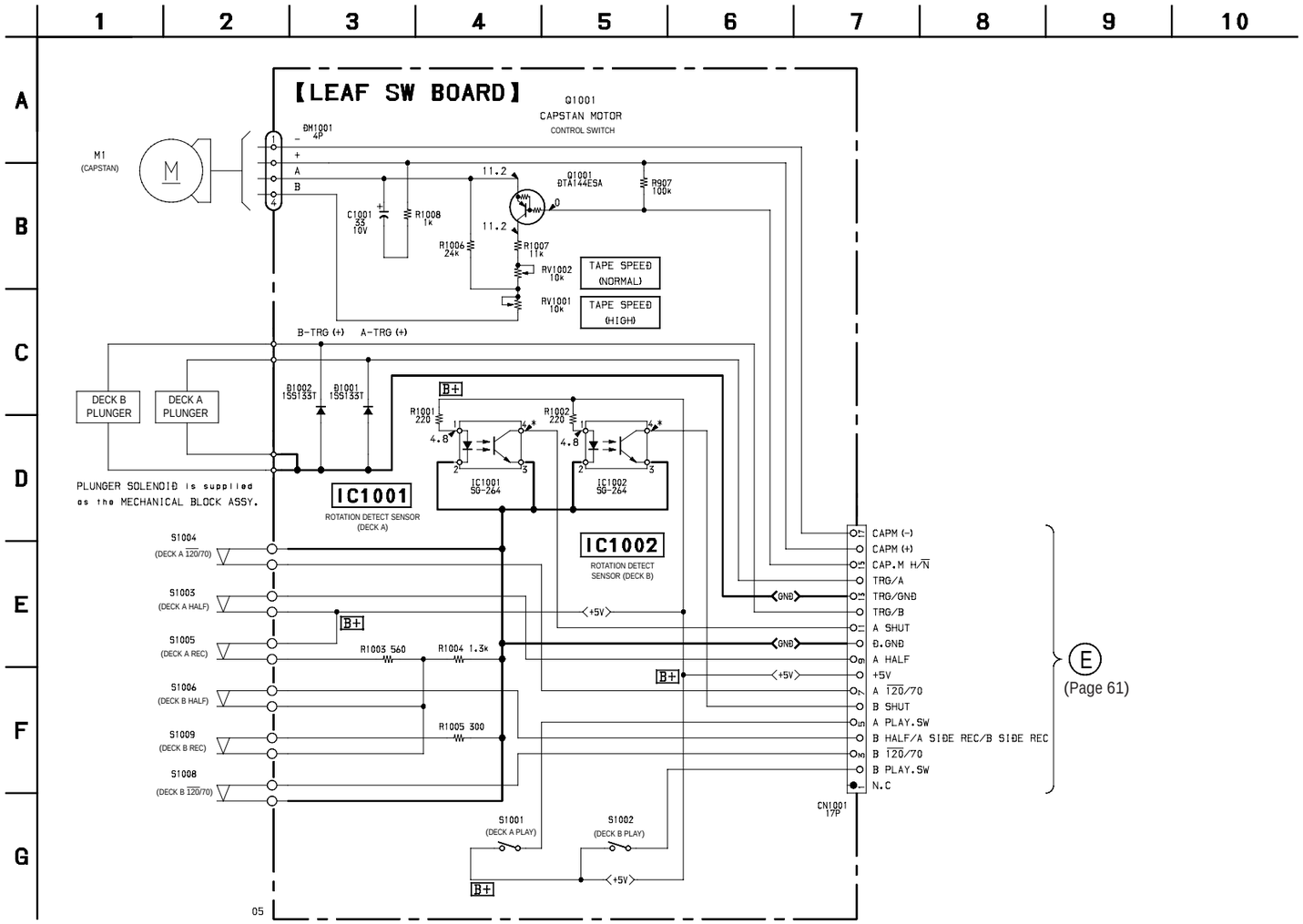
- Voltages are dc with respect to ground under no-signal conditions.
  no mark : TAPE PLAY
  ( ) : RECORD

The components identified by mark ⚠ or dotted line with mark ⚠ are critical for safety.
Replace only with part number specified.

7-16. PRINTED WIRING BOARD – LEAF SW Board – • See page 32 for Circuit Boards Location.



7-17. SCHEMATIC DIAGRAM – LEAF SW Board –

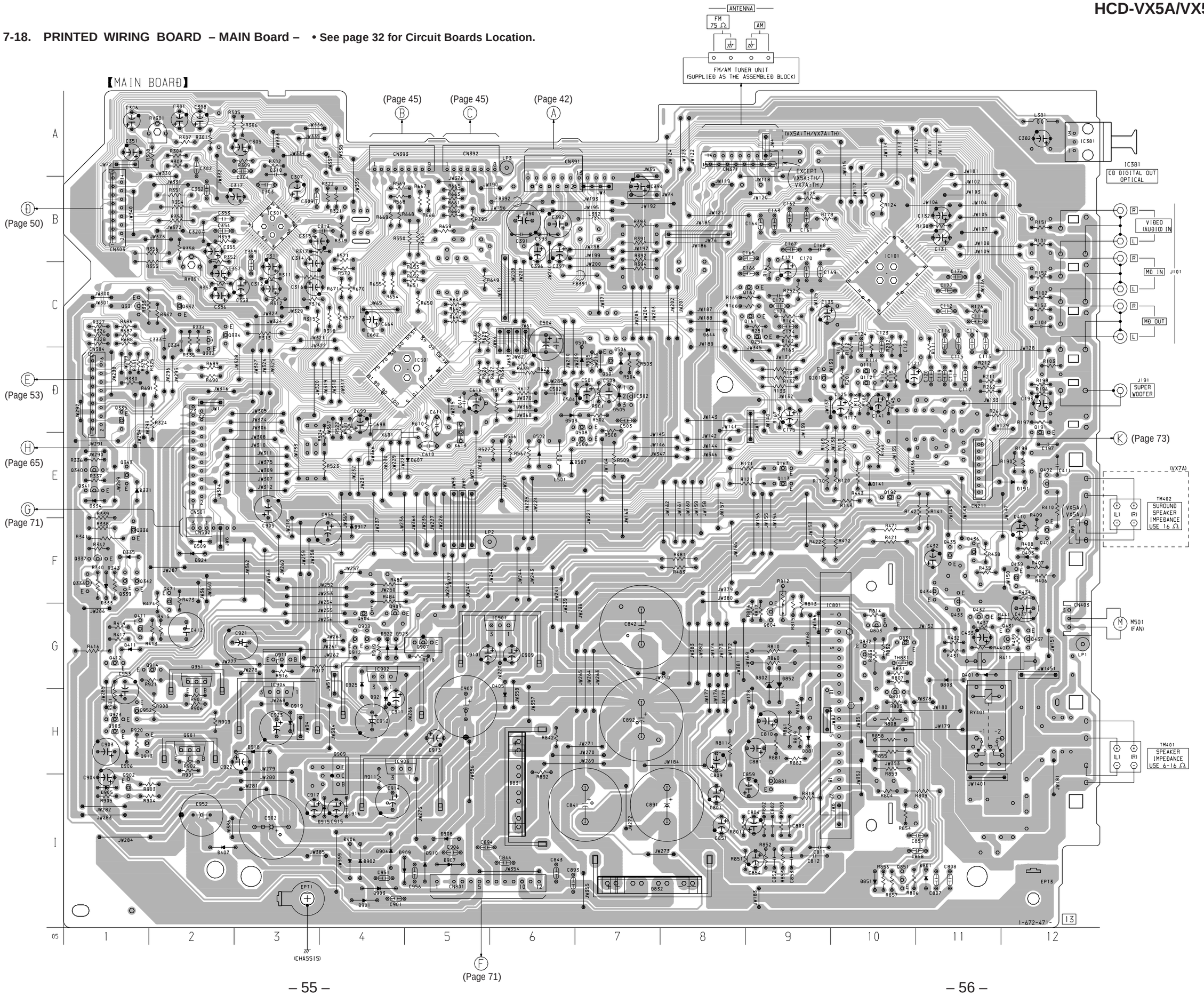


• Voltages are dc with respect to ground under no-signal conditions.
no mark : TAPE PLAY
( ) : RECORD
∗ : Impossible to measure

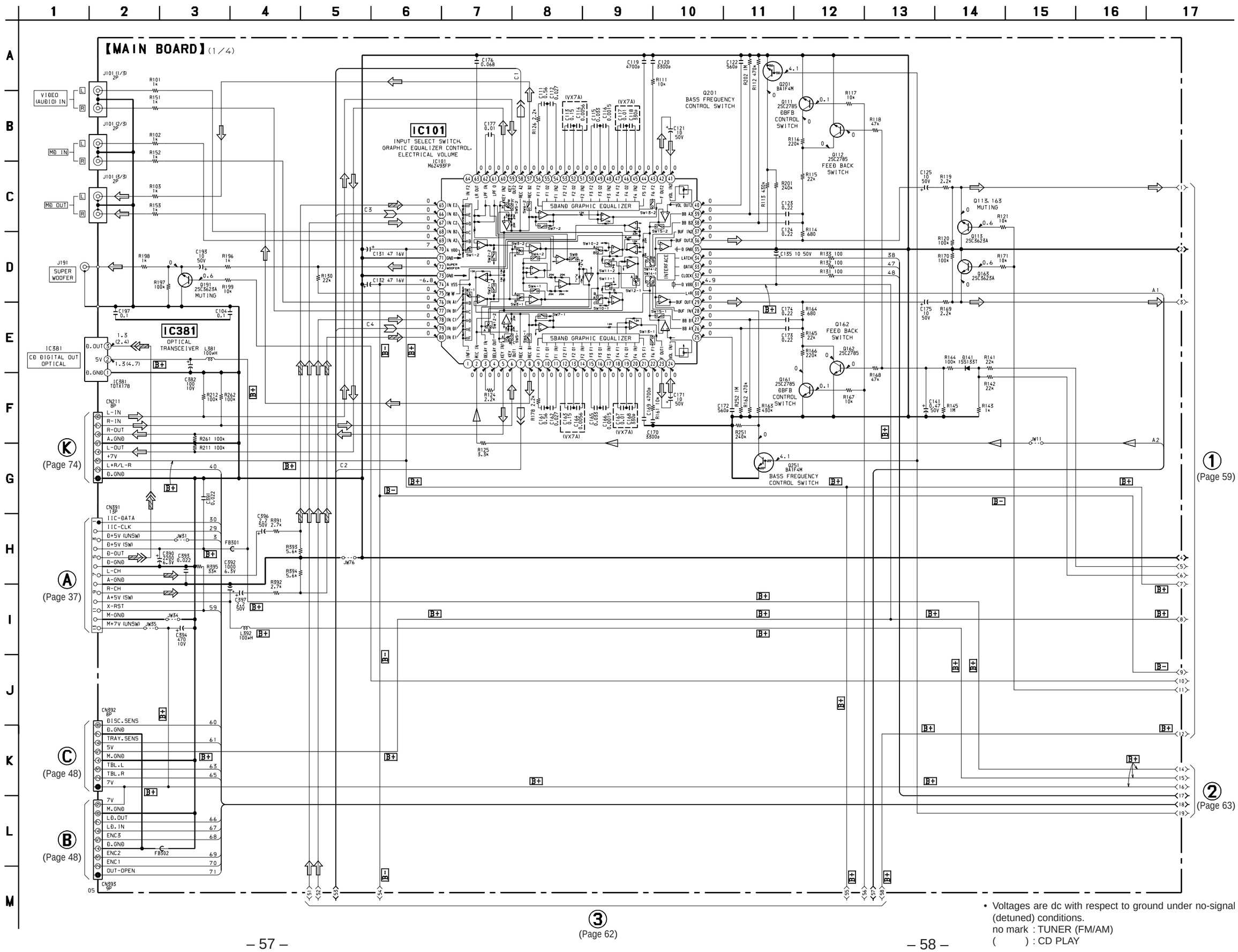
• **Semiconductor Location**

Ref. No.	Location	Ref. No.	Location
D141	E-10	Q111	D-10
D191	D-12	Q112	D-10
D331	E-1	Q113	E-9
D333	F-1	Q161	C-9
D334	E-1	Q162	C-9
D335	F-1	Q163	E-9
D401	G-11	Q191	D-12
D403	F-12	Q192	E-10
D405	H-6	Q201	D-9
D406	I-4	Q251	C-9
D407	I-2	Q331	C-1
D411	G-1	Q332	C-2
D501	D-7	Q333	C-2
D502	E-6	Q334	C-2
D503	D-6	Q335	D-1
D504	D-7	Q336	F-1
D505	D-7	Q337	F-1
D506	D-7	Q338	F-1
D507	E-6	Q339	F-1
D509	F-2	Q340	E-1
D607	E-5	Q341	E-1
D644	C-8	Q342	F-1
D801	I-11	Q343	E-1
D802	G-9	Q401	F-12
D803	G-11	Q402	E-12
D831	I-6	Q411	G-1
D832	I-7	Q412	G-1
D851	I-10	Q431	G-12
D852	G-9	Q432	G-11
D881	H-9	Q433	F-11
D901	I-4	Q434	F-11
D902	I-4	Q435	F-11
D903	I-4	Q436	F-11
D904	I-4	Q437	G-12
D905	I-1	Q439	F-12
D906	H-1	Q471	F-2
D907	I-5	Q501	D-7
D908	I-5	Q508	D-7
D909	I-5	Q509	E-7
D910	I-5	Q801	H-10
D915	I-4	Q803	G-10
D917	F-4	Q804	G-9
D918	H-3	Q831	G-10
D919	H-3	Q832	G-10
D921	H-4	Q851	I-10
D922	G-4	Q881	I-9
D923	G-4	Q901	H-2
D924	F-2	Q902	I-1
D925	G-4	Q903	H-1
		Q904	G-4
IC101	C-10	Q905	G-4
IC301	B-3	Q907	G-5
IC381	A-12	Q908	G-4
IC501	D-5	Q909	I-4
IC502	D-7	Q911	G-3
IC801	H-10	Q912	G-4
IC901	G-6	Q913	H-1
IC902	G-4	Q914	G-2
IC903	H-4	Q923	H-1
IC904	H-3	Q951	G-2
		Q952	H-1

7-18. PRINTED WIRING BOARD – MAIN Board – • See page 32 for Circuit Boards Location.

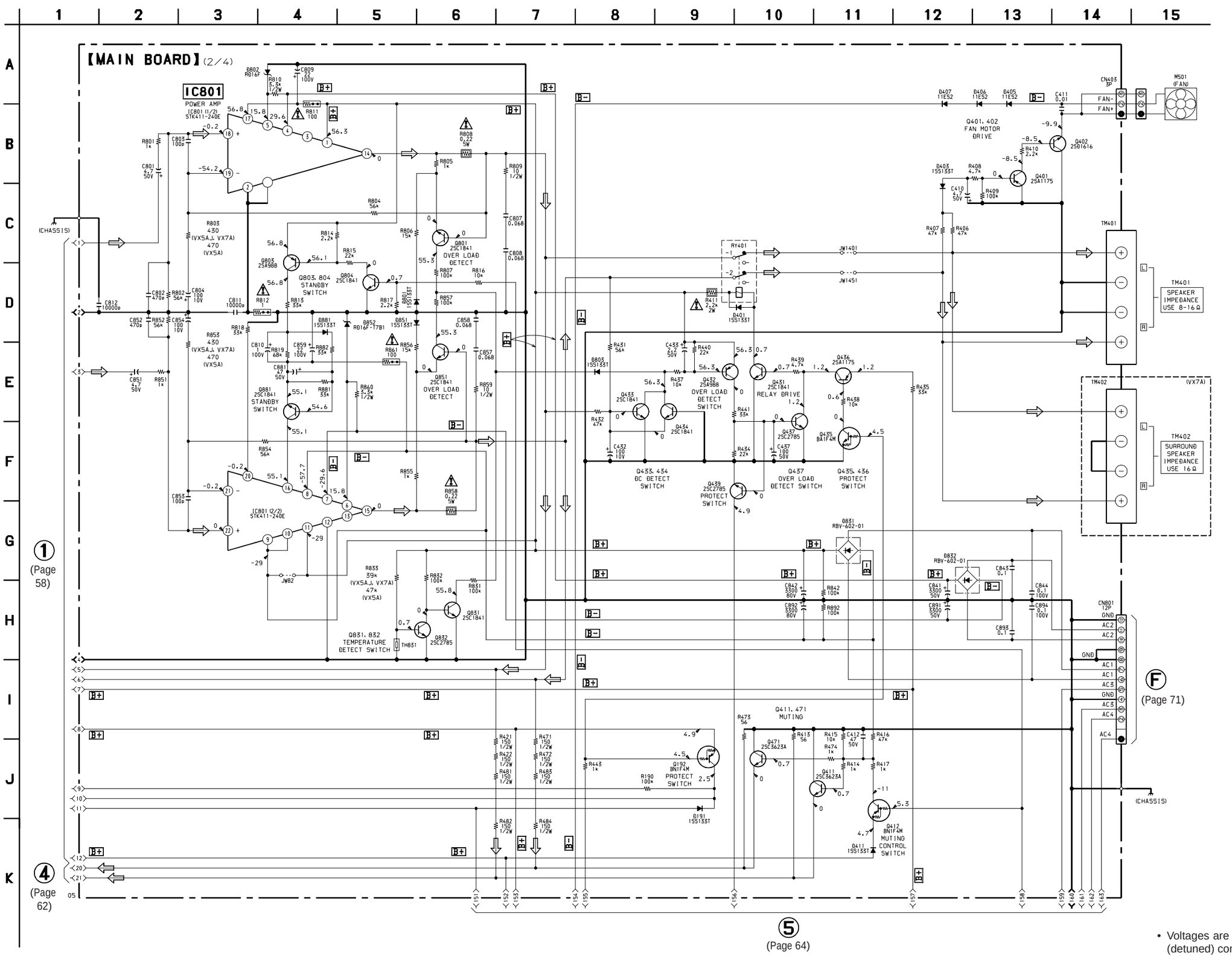


7-19. SCHEMATIC DIAGRAM – MAIN Board (1/4) – • See page 75 for Waveforms.



• Voltages are dc with respect to ground under no-signal (detuned) conditions.
no mark : TUNER (FM/AM)
( ) : CD PLAY

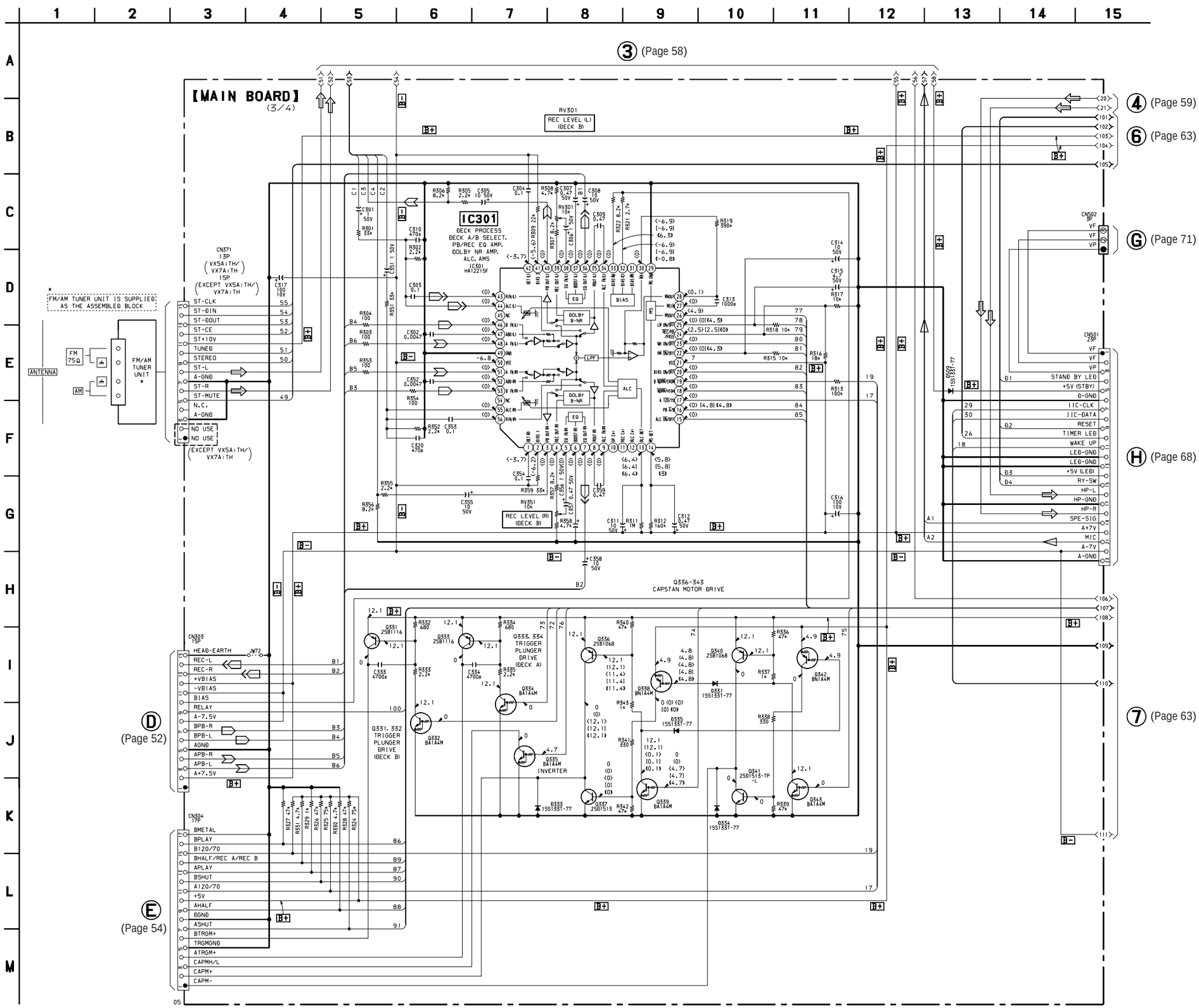
7-20. SCHEMATIC DIAGRAM – MAIN Board (2/4) – • See page 75 for Waveforms.



• Voltages are dc with respect to ground under no-signal (detuned) conditions.
no mark : TUNER (FM/AM)

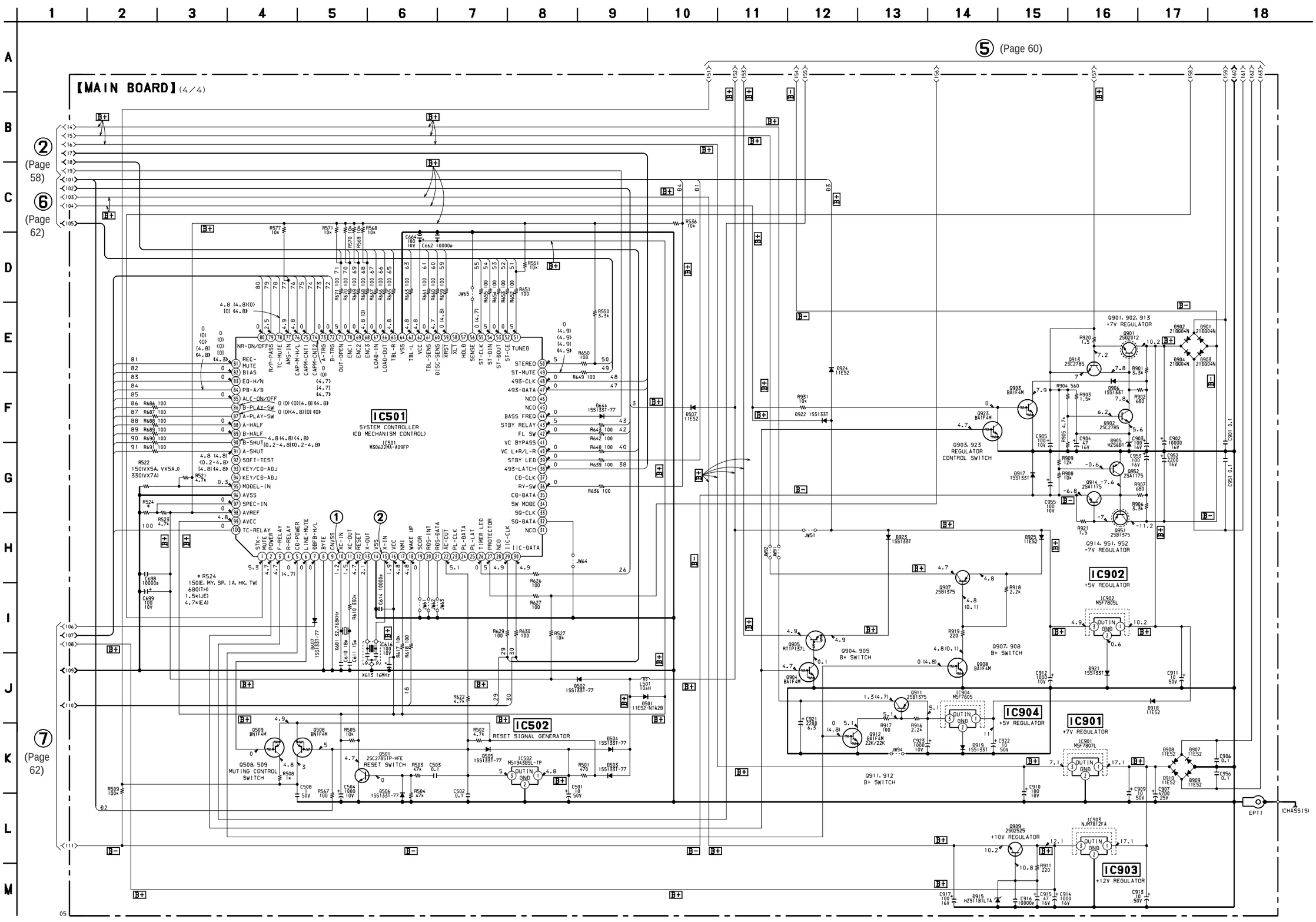
The components identified by mark ⚠ or dotted line with mark ⚠ are critical for safety.
Replace only with part number specified.

7-21. SCHEMATIC DIAGRAM – MAIN Board (3/4) – • See page 75 for Waveforms.



- Voltages are dc with respect to ground under no-signal conditions.
  no mark : TUNER (FM/AM)
  ( ) : CD PLAY
  { } : PLAYBACK (DECK A)
  [ ] : PLAYBACK (DECK B)
  〈〈 〉〉 : RECORD

7-22. SCHEMATIC DIAGRAM – MAIN Board (4/4) – • See page 75 for Waveforms.

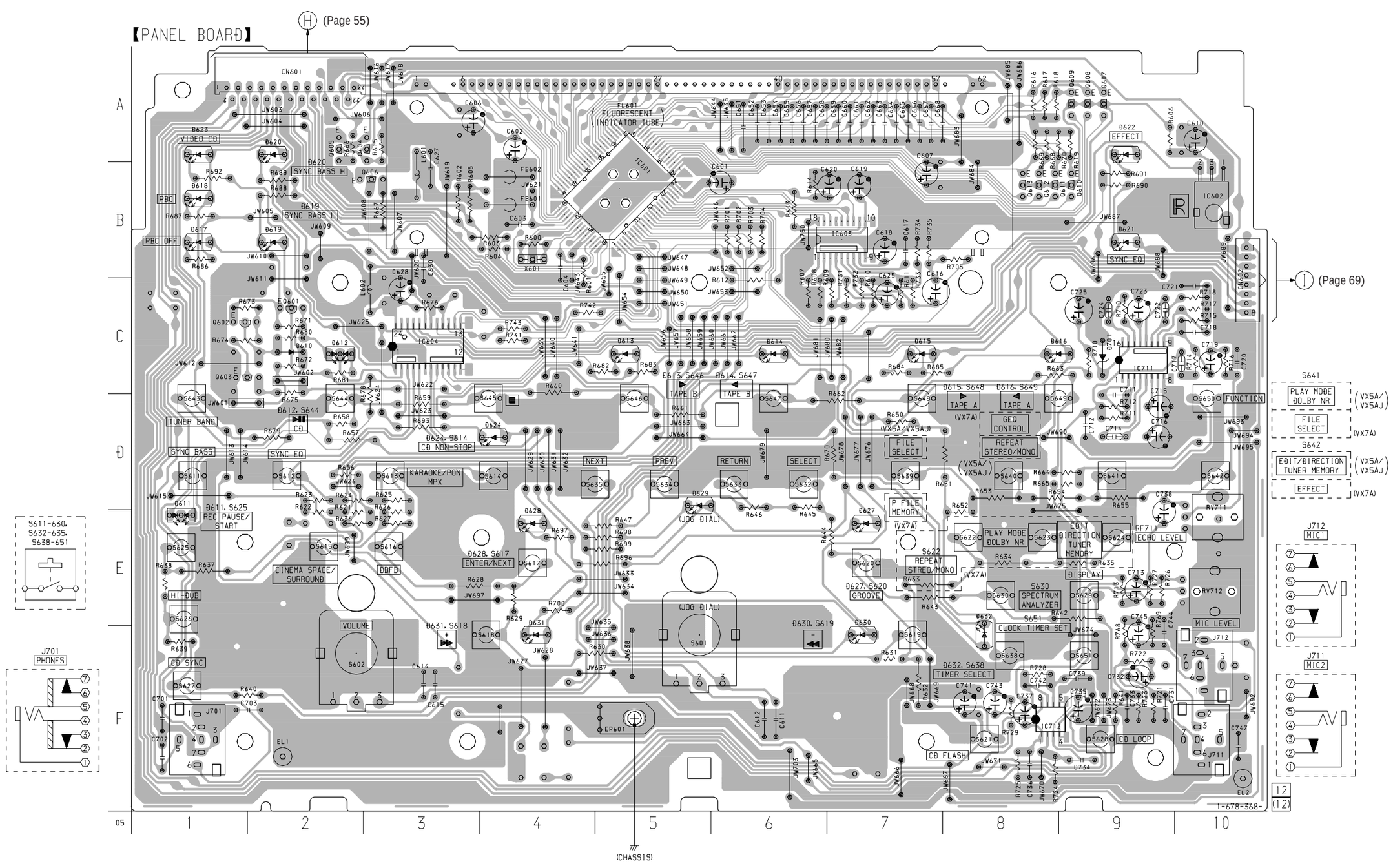


• Voltages and waveforms are dc with respect to ground under no-signal (detuned) conditions.
no mark : TUNER (FM/AM)
( ) : CD PLAY
{ } : PLAYBACK (DECK A)
[ ] : PLAYBACK (DECK B)
⟨⟨ ⟩⟩ : RECORD

7-23. PRINTED WIRING BOARD – PANEL Board – • See page 32 for Circuit Boards Location.

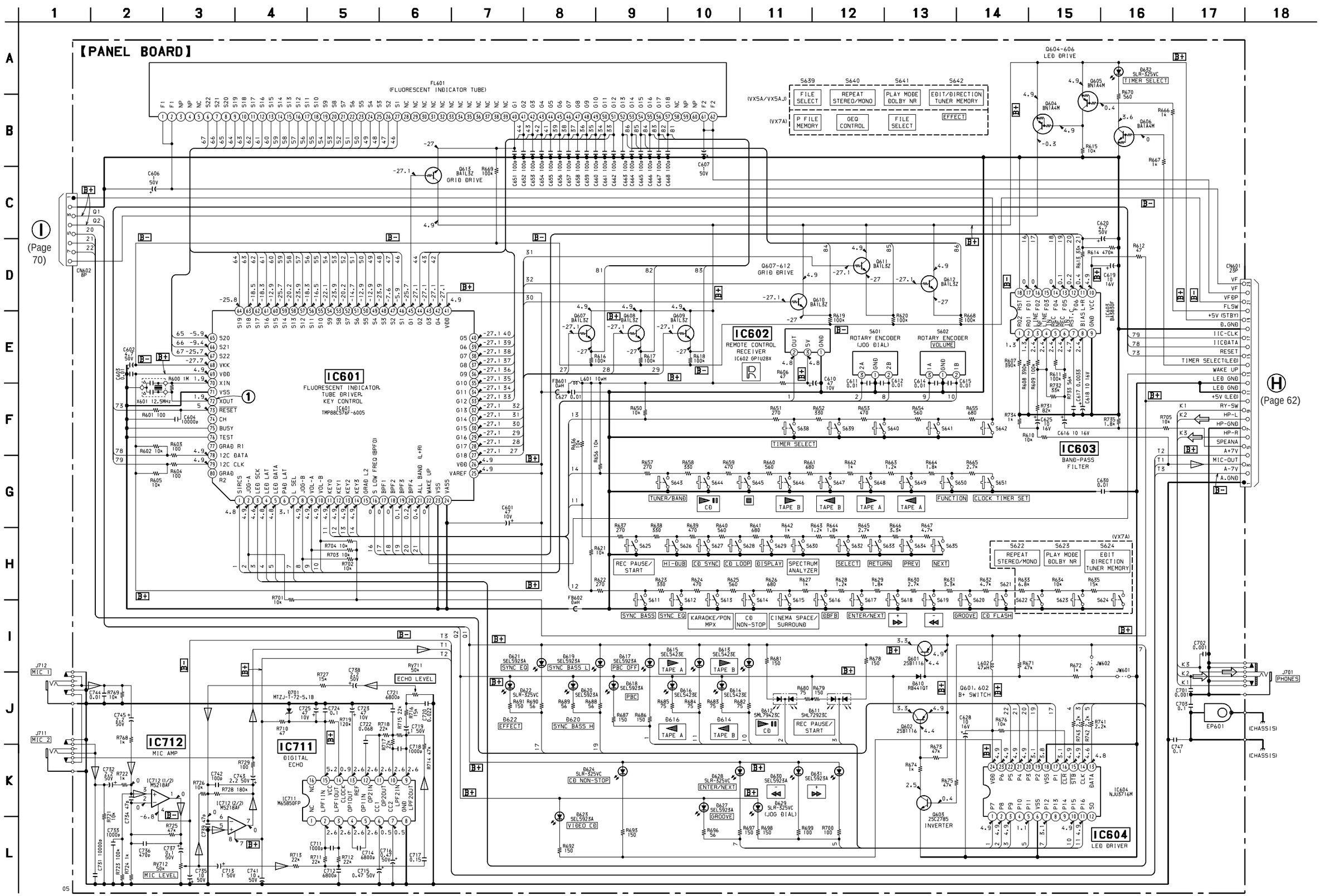
• **Semiconductor Location**

Ref. No.	Location
D610	C-2
D611	E-1
D612	C-2
D613	C-5
D614	C-6
D615	C-7
D616	C-8
D617	B-1
D618	B-1
D619	B-2
D620	A-2
D621	B-9
D622	A-9
D623	A-1
D624	D-4
D627	E-7
D628	E-4
D629	D-5
D630	F-7
D631	F-4
D632	F-8
D701	C-9
IC601	B-5
IC602	B-10
IC603	B-7
IC604	C-3
IC711	C-9
IC712	F-8
Q601	C-2
Q602	C-1
Q603	C-1
Q604	A-3
Q605	A-2
Q606	B-3
Q607	A-9
Q608	A-9
Q609	A-9
Q610	B-9
Q611	B-8
Q612	B-8
Q613	B-8



7-24. SCHEMATIC DIAGRAM – PANEL Board –

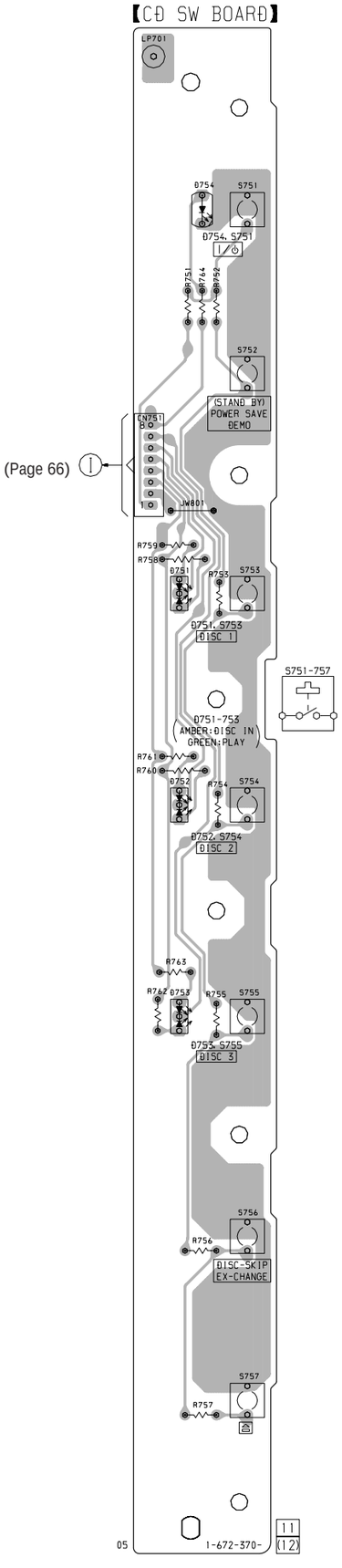
• See page 75 for Waveform. • See page 79 for IC Block Diagrams.



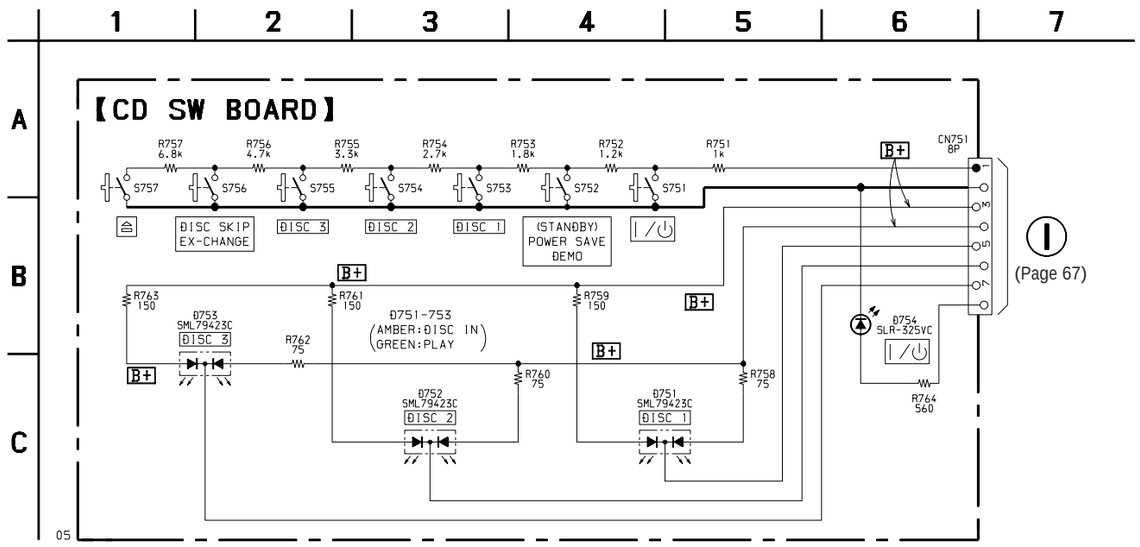
• Voltages and waveforms are dc with respect to ground under no-signal (detuned) conditions.
no mark : TUNER (FM/AM)

7-25. PRINTED WIRING BOARD – CD SW Board –

• See page 32 for Circuit Boards Location.



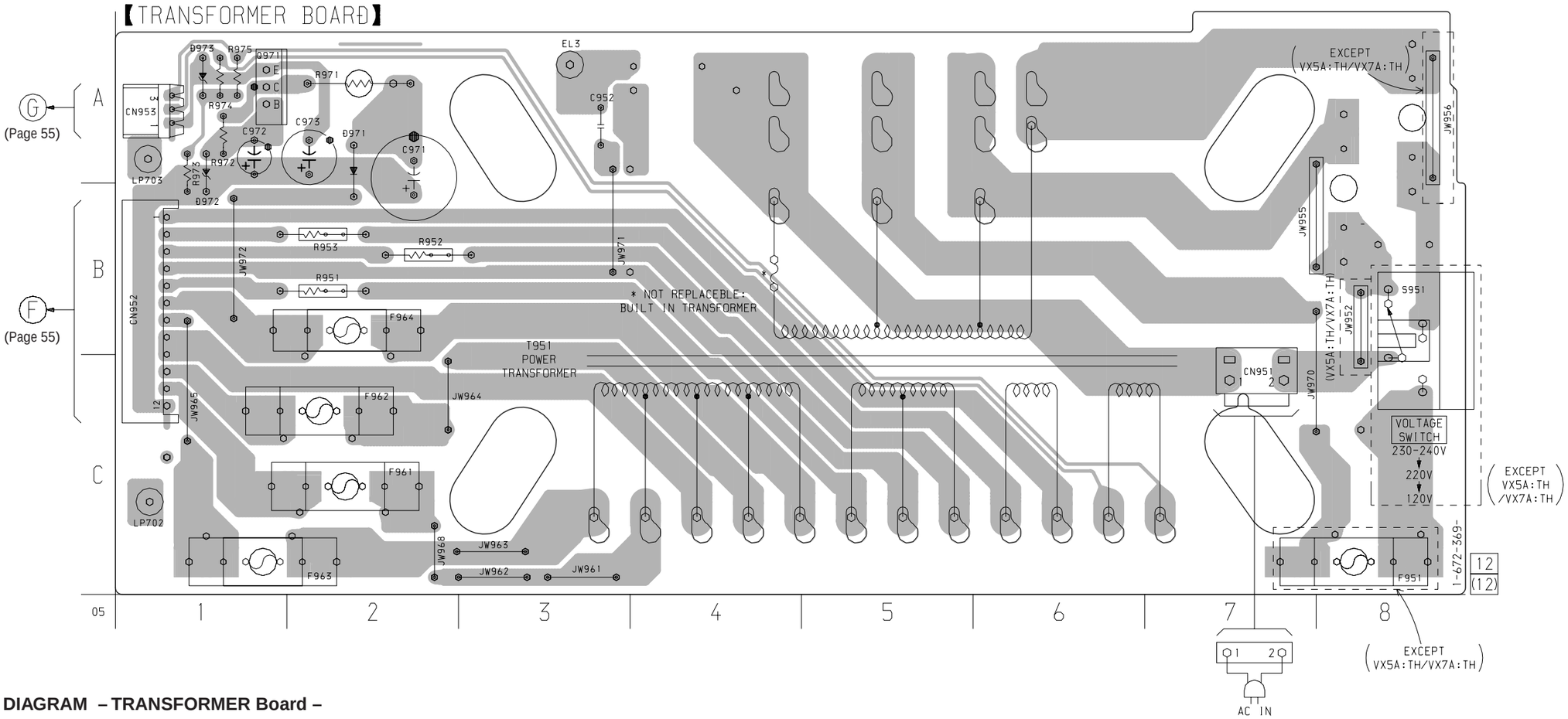
7-26. SCHEMATIC DIAGRAM – CD SW Board –



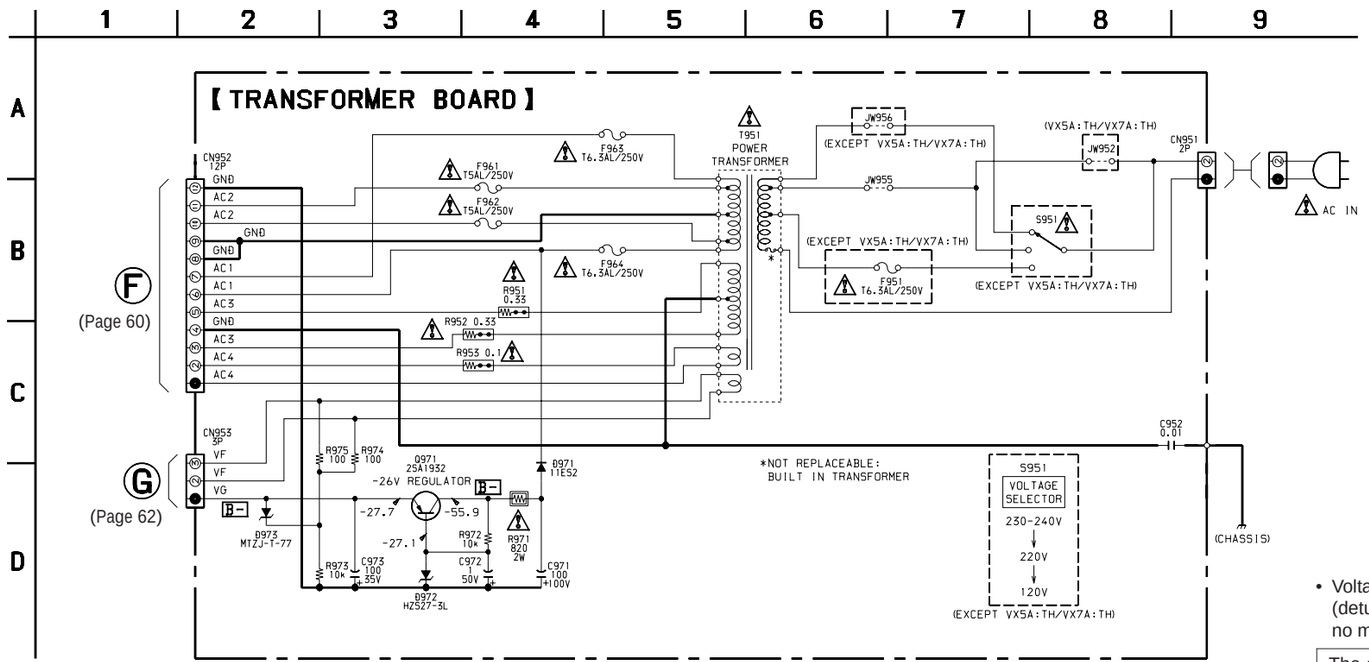
7-27. PRINTED WIRING BOARD – TRANSFORMER Board – • See page 32 for Circuit Boards Location.

• **Semiconductor Location**

Ref. No.	Location
D971	A-2
D972	A-1
D973	A-1
Q971	A-1



7-28. SCHEMATIC DIAGRAM – TRANSFORMER Board –

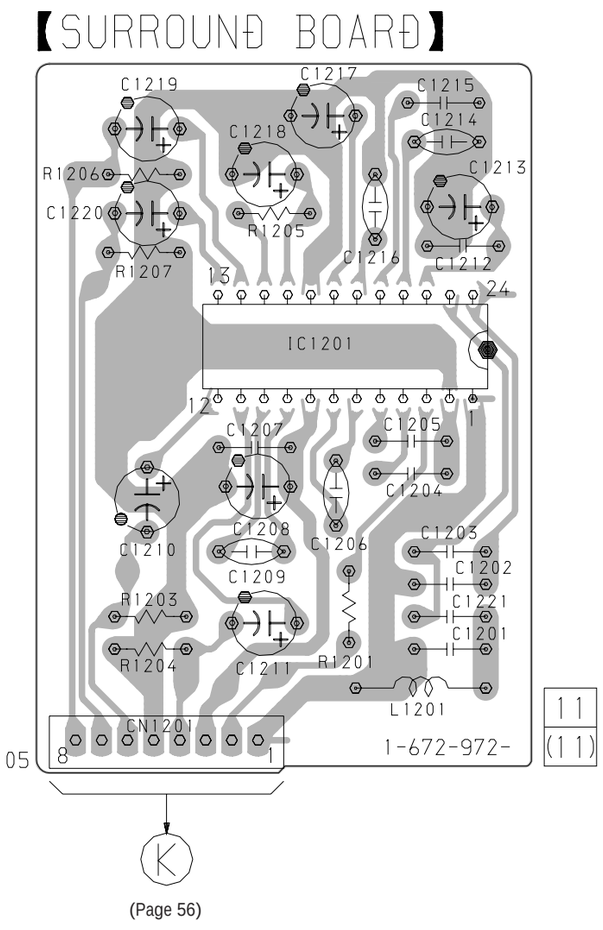


• Voltages are dc with respect to ground under no-signal (detuned) conditions.
no mark : TUNER (FM/AM)

The components identified by mark ⚠ or dotted line with mark ⚠ are critical for safety.
Replace only with part number specified.

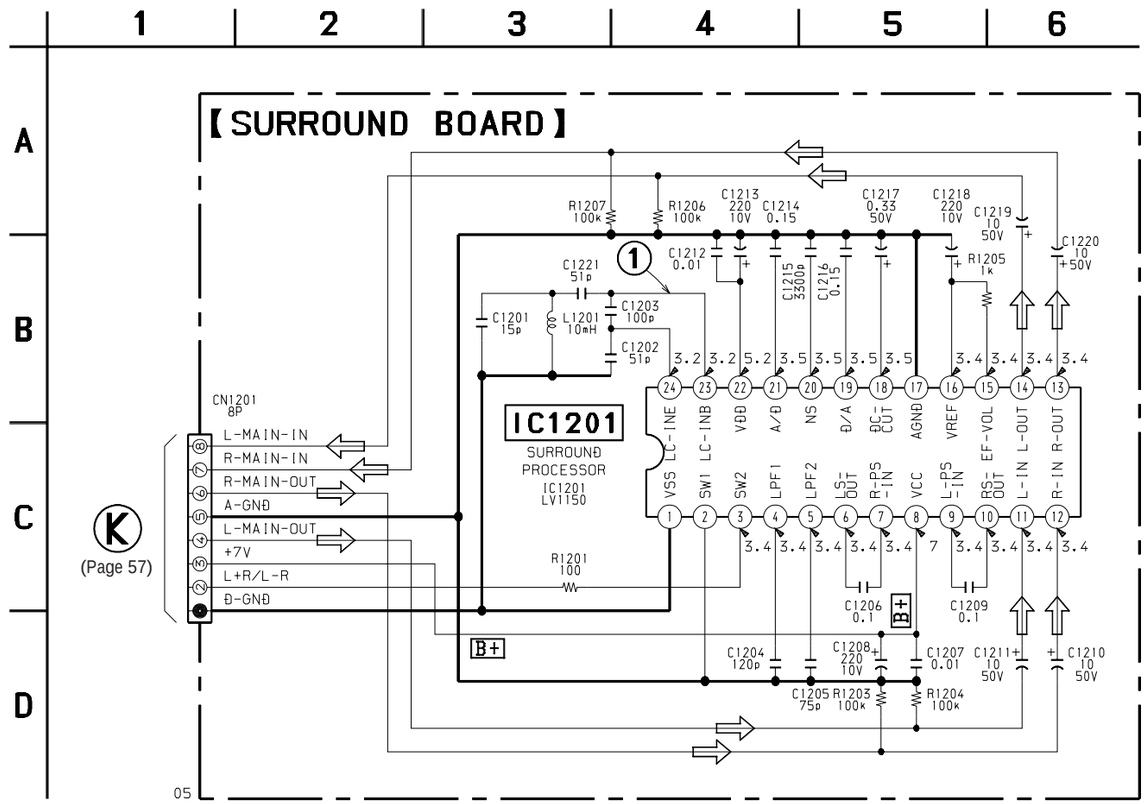
7-29. PRINTED WIRING BOARD – SURROUND Board –

• See page 32 for Circuit Boards Location.



7-30. SCHEMATIC DIAGRAM – SURROUND Board –

• See page 75 for Waveform. • See page 78 for IC Block Diagrams.

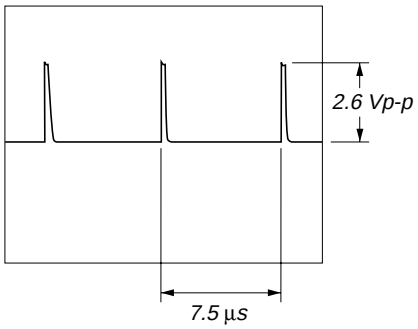


- Voltages and waveforms are dc with respect to ground under no-signal (detuned) conditions.
  no mark : TUNER (FM/AM)

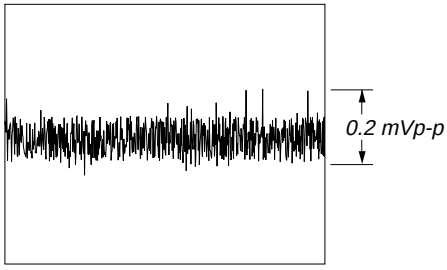
• Waveforms

– BD Board –

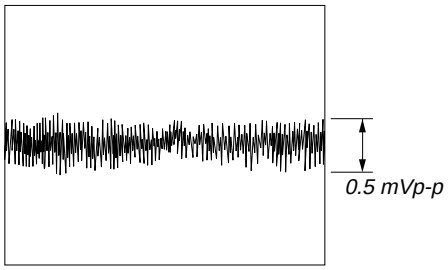
❶ IC101 ㉕ (MDP)



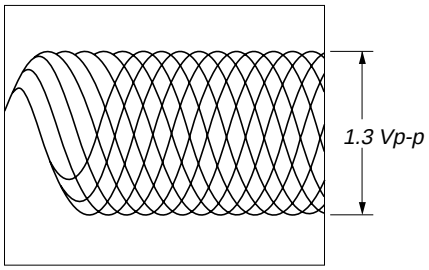
❷ IC101 ㊴ (FE) (CD Play mode)



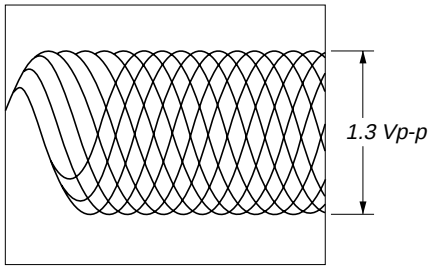
❸ IC101 ㊶ (TE) (CD Play mode)



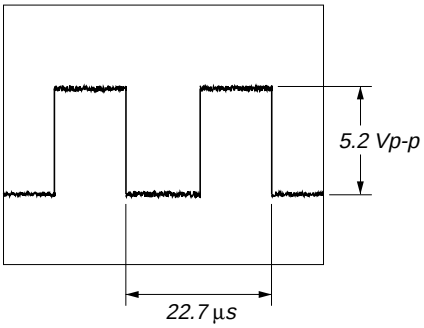
❹ IC101 ㊸ (RFDC) (CD Play mode)



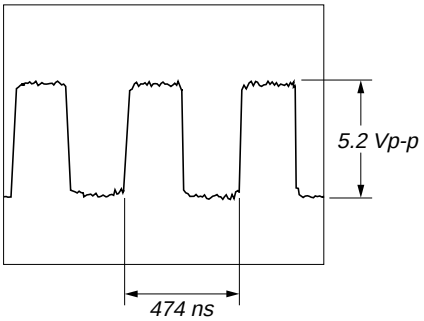
❺ IC101 ㊿ (RFAC) (CD Play mode)



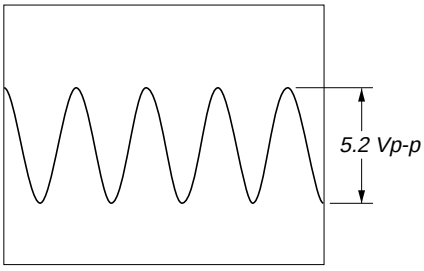
❻ IC101 ㊺ (LRCK)



❼ IC101 ㊼ (BCLK)

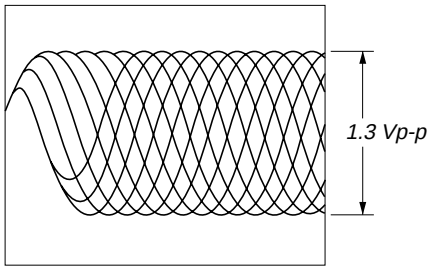


❽ IC101 ㉑ (XTAI)



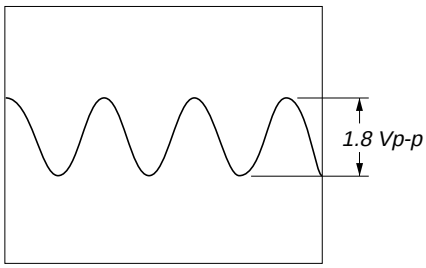
16.9344 MHz

❾ IC103 ⑯ (RFO) (CD Play mode)



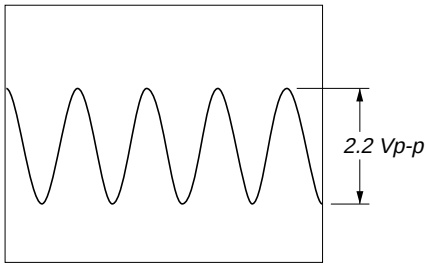
– MAIN Board –

❶ IC501 ⑩ (XC-IN)



32.768 kHz

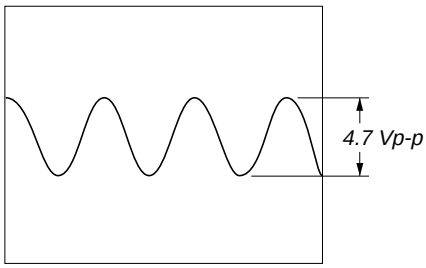
❷ IC501 ⑮ (XIN)



16 MHz

– PANEL Board –

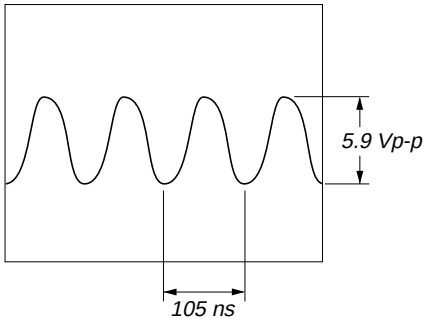
❶ IC601 ⑫ (XOUT)



12.5 MHz

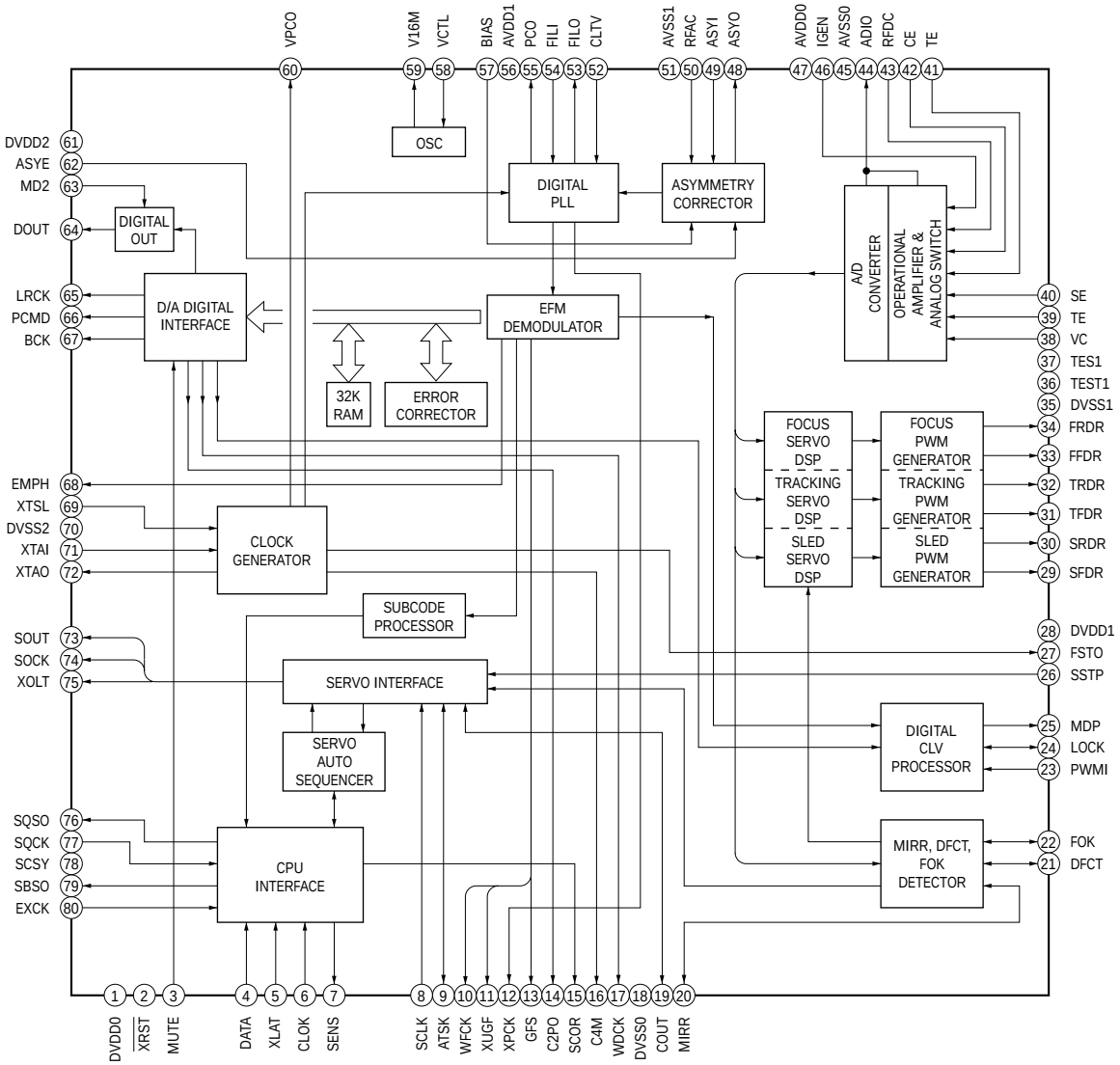
– SURROUND Board –

❶ IC1201 ㉓ (LC-INB)

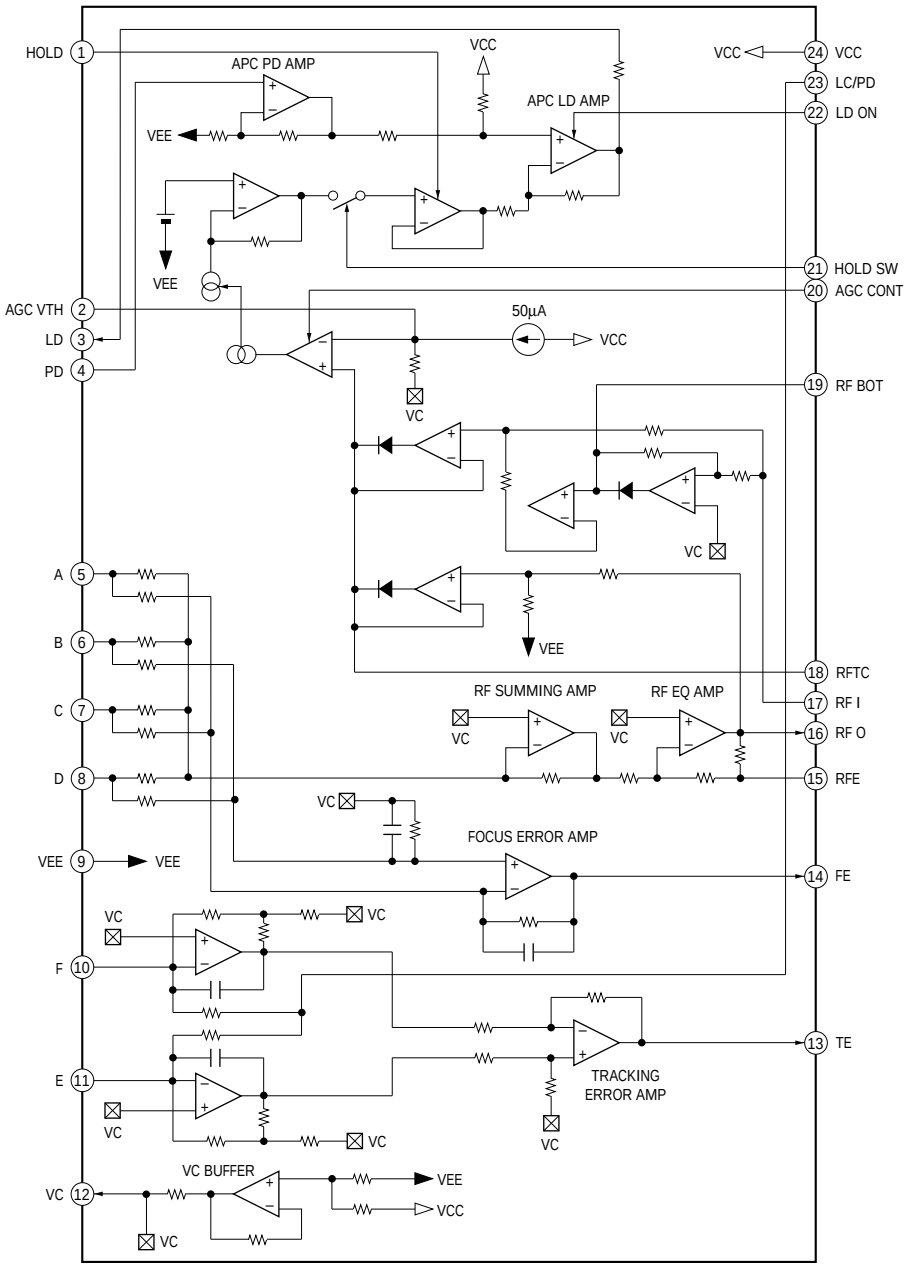


• IC Block Diagrams
– BD Board –

IC101 CXD3008Q

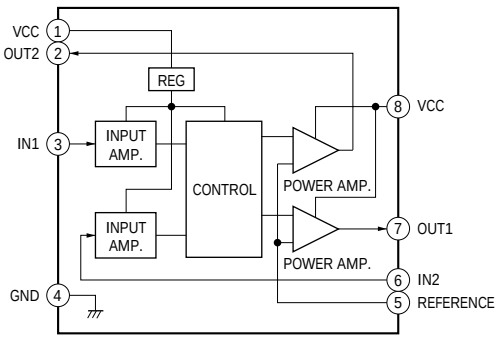


IC103 CXA2568M-T6



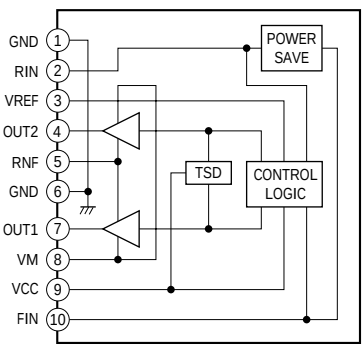
– MOTOR (TURN) Board –

IC701 M54641L



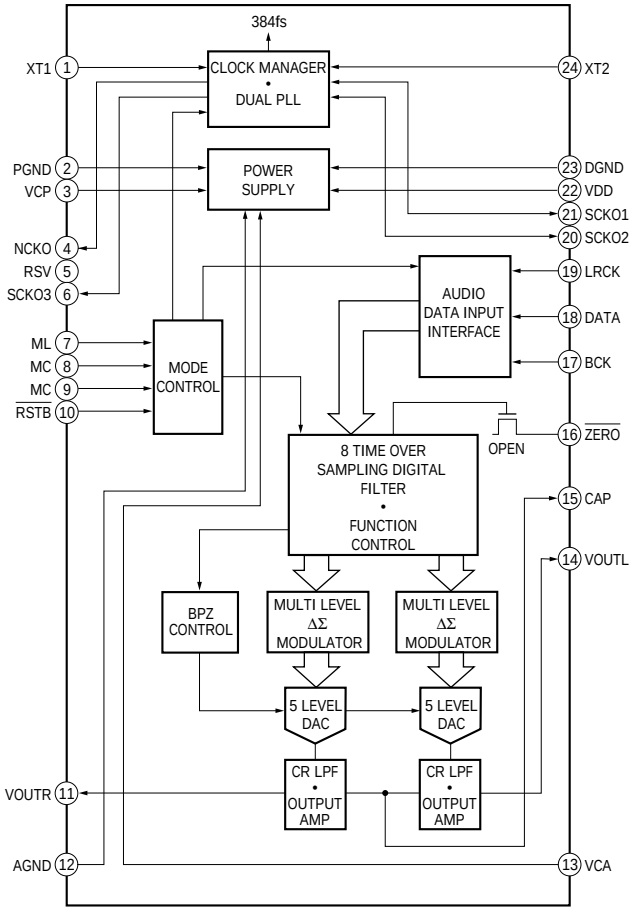
– MOTOR (SLIDE) Board –

IC801 BA6286N



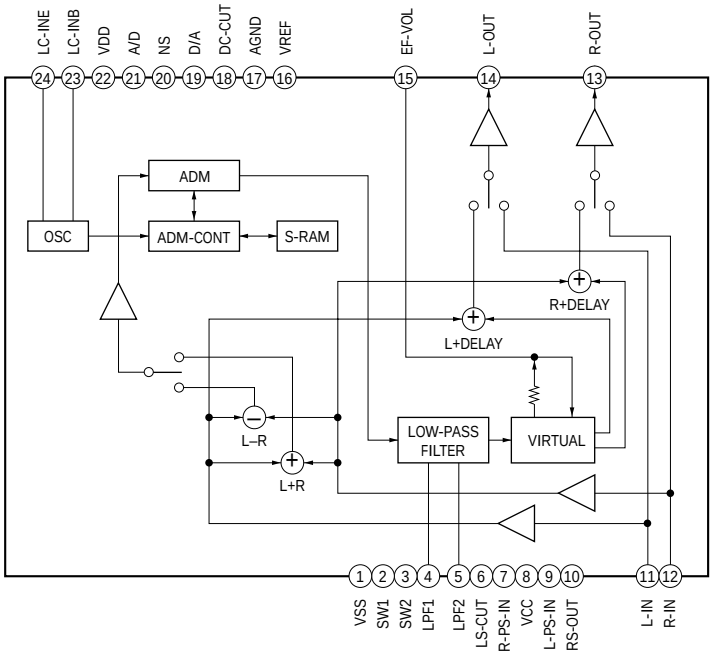
– VIDEO Board –

IC509 PCM1727E-2/T2



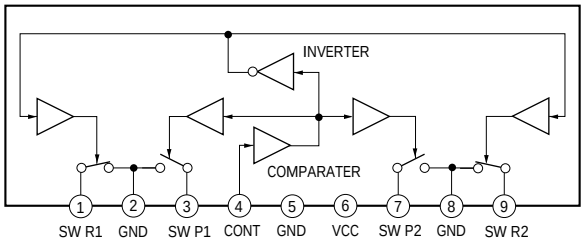
– SURROUND Board –

IC1201 LV1150



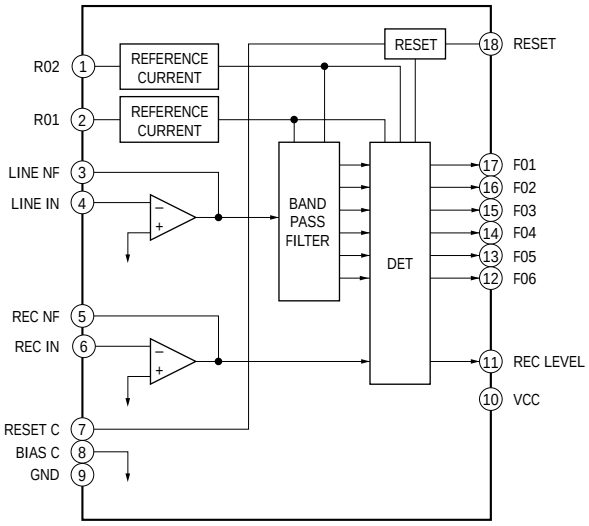
– AUDIO Board –

IC602 µPC1330HA

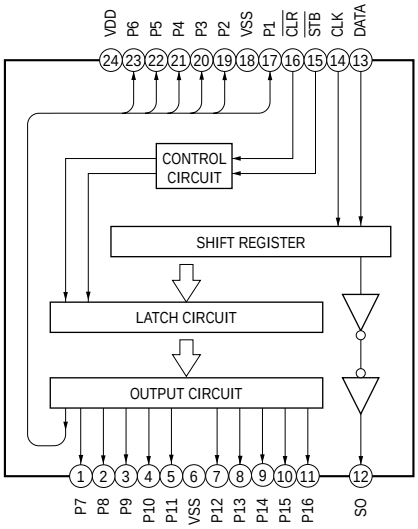


– PANEL Board –

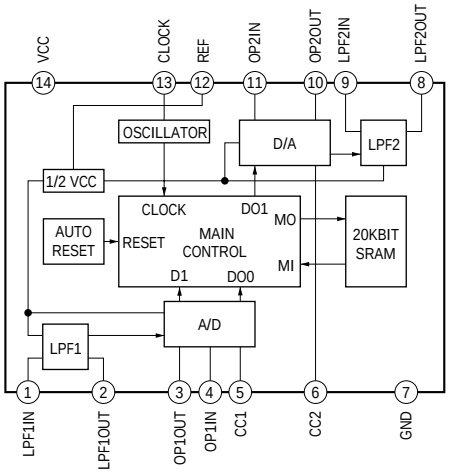
IC603 BA3830F



IC604 NJU3716M-T2



IC711 M65850FP



7-31. IC PIN FUNCTION DESCRIPTION

• MAIN BOARD IC501 M30622MA-A09FP (SYSTEM CONTROLLER)

Pin No.	Pin Name	I/O	Description
1	STK-MUTE	O	Power amplifier on/off selection signal output terminal "L": standby mode, "H": on
2	POWER	O	Power on/off control signal output for the audio system (+5V) and deck, panel, audio system (+7V) "L": standby mode, "H": power on
3	F-RELAY	O	Relay drive signal output for the speaker protect "H": relay on
4	R-RELAY	O	Relay drive signal output for the speaker protect "H": relay on Not used (open)
5	CD-POWER	O	Power on/off control signal output for the CD/video CD section "L": standby mode, "H": power on
6	LINE-MUTE	O	Line muting on/off control signal output terminal "L": muting on
7	DBFB-H/L	O	DBFB normal/high selection signal output to the M62493FP (IC101) "L": DBFB high, "H": DBFB low
8	BYTE	I	External data bus line byte selection signal input terminal Fixed at "L" in this set
9	CNVSS	—	Ground terminal
10	XC-IN	I	Sub system clock input terminal (32.768 kHz)
11	XC-OUT	O	Sub system clock output terminal (32.768 kHz)
12	$\overline{\text{RESET}}$	I	System reset signal input from the reset signal generator (IC502) "L": reset For several hundreds msec. after the power supply rises, "L" is input, then it changes to "H"
13	X-OUT	O	Main system clock output terminal (16 MHz)
14	VSS	—	Ground terminal
15	X-IN	I	Main system clock input terminal (16 MHz)
16	VCC	—	Power supply terminal (+5V)
17	NMI	I	Non-maskable interrupt input terminal Fixed at "H" in this set
18	WAKE UP	I	Wakeup control signal input from the fluorescent indicator tube driver (IC601) "H" active
19	SCOR	I	Subcode sync (S0+S1) detection signal input terminal Not used (fixed at "L")
20	RDS-INT	I	Serial data transfer clock signal input terminal Not used (fixed at "L")
21	RDS-DATA	I	Serial data input terminal Not used (fixed at "L")
22	$\overline{\text{AC-CUT}}$	I	AC off detection signal input from the reset signal generator (IC502) "L": AC cut checked
23	PL-CLK	O	Serial data transfer clock signal output to the pro-logic circuit Not used (open)
24	PL-DATA	O	Serial data output to the pro-logic circuit Not used (open)
25	PL-LAT	O	Serial data latch pulse output to the pro-logic circuit Not used (open)
26	TIMER LED	O	LED drive signal output of the TIMER SELECT indicator (D632) "H": LED on
27	PROTECTOR	I	Protect on/off detection signal input from the speaker protect circuit "L": protect on, "H": protect off
28	NCO	O	Not used (open)
29	IIC-CLK	I/O	Communication data reading clock signal input or transfer clock signal output with the CD mechanism controller (IC502) and fluorescent indicator tube driver (IC601)
30	IIC-DATA	I/O	Communication data bus with the CD mechanism controller (IC502) and fluorescent indicator tube driver (IC601)
31	NCO	O	Not used (open)
32	SQ-DATA	I	Subcode Q data input terminal Not used (fixed at "L")
33	SQ-CLK	O	Subcode Q data reading clock signal output terminal Not used (open)
34	SW MODE	O	Not used (open)
35	CD-DATA	O	Serial data output terminal Not used (open)
36	RY-SW	I	Connection detect signal input of the headphone jack (J701) "L": no connected, "H": headphone connected
37	CD-CLK	O	Serial data transfer clock signal output terminal Not used (open)
38	493-LATCH	O	Serial data latch pulse output to the M62493FP (IC101)
39	STBY LED	O	LED drive signal output of the I/⏻ indicator (D754) "H": LED on (standby mode)

Pin No.	Pin Name	I/O	Description
40	VC L+R/L–R	O	Virtual cinema L+R/L–R selection signal output to the LV1150 (IC1201)
41	VC BYPASS	O	Virtual cinema bypass control signal output terminal Not used (open)
42	FL SW	O	Filament on/off selection signal output for the fluorescent indicator tube "L": on, "H": off Not used in this set
43	STBY RELAY	O	Main power on/off control signal output terminal "L": standby mode, "H": power on Not used in this set
44	BASS FREQ.	O	Sync bass frequency normal/high selection signal output to the M62493FP (IC101) "L": sync bass off (normal), "H": sync bass high
45, 46	NCO	O	Not used (open)
47	493-DATA	O	Serial data output to the M62493FP (IC101)
48	493-CLK	O	Serial data transfer clock signal output to the M62493FP (IC101)
49	ST-MUTE	O	Tuner muting control signal output to the FM/AM tuner unit "H": muting on
50	STEREO	I	FM stereo detection signal input from the FM/AM tuner unit "L": stereo
51	TUNED	I	Tuning detection signal input from the FM/AM tuner unit "L": tuned
52	ST-CE	O	PLL chip enable signal output to the FM/AM tuner unit
53	ST-DOUT	O	PLL serial data output to the FM/AM tuner unit
54	ST-DIN	I	PLL serial data input from the FM/AM tuner unit
55	ST-CLK	O	PLL serial data transfer clock signal output to the FM/AM tuner unit
56	SENSE	I	Internal status detection monitor input terminal Not used (fixed at "L")
57	HOLD	O	Laser power control signal output terminal Not used (open)
58	$\overline{\text{XLT}}$	O	Serial data latch pulse output terminal Not used (open)
59	$\overline{\text{XRST}}$	O	Reset signal output to the CD mechanism controller (IC502) "L": reset
60	DISC-SENS	I	Disc status detection signal input from the disc sensor (IC703)
61	TBL-SENS	I	Disc tray status detection signal input from the disc tray sensor (IC702)
62	VCC	—	Power supply terminal (+5V)
63	TBL-L	O	Motor drive signal output to the disc tray turn motor driver (IC701) "L" active *1
64	VSS	—	Ground terminal
65	TBL-R	O	Motor drive signal output to the disc tray turn motor driver (IC701) "L" active *1
66	LOAD-OUT	O	Motor drive signal output to the disc tray slide motor driver (IC801) "H" active *2
67	LOAD-IN	O	Motor drive signal output to the disc tray slide motor driver (IC801) "H" active *2
68 to 70	ENC3 to ENC1	I	Detection signal input from the disc tray address detect rotary encoder (S811)
71	OUT-OPEN	I	Detection signal input from the disc tray open/close detect switch (S801) "L": open, "H": close
72	B-TRG	O	Deck-B side trigger plunger drive signal output terminal "H": plunger on
73	A-TRG	O	Deck-A side trigger plunger drive signal output terminal "H": plunger on
74	CAPM-CNT2	O	Capstan motor (M1) drive signal output terminal "H" active *3
75	CAPM-CNT1	O	Capstan motor (M1) drive signal output terminal "H" active *3

*1 Disc tray turn motor (M701) control

Mode / Terminal	Stop	Counter-clockwise	Clockwise	Brake
TBL-L (pin ⑥③)	"H"	"L"	"H"	"L"
TBL-R (pin ⑥⑤)	"H"	"H"	"L"	"L"

*2 Disc tray slide motor (M801) control

Mode / Terminal	Stop	Table In	Table Out	Brake
LOAD-OUT (pin ⑥⑥)	"L"	"L"	"H"	"H"
LOAD-IN (pin ⑥⑦)	"L"	"H"	"L"	"H"

*3 Capstan motor (M1) control

Mode / Terminal	Stop	Forward Direction	Reverse Direction	Brake
CAPM-CNT1 (pin ⑦⑤)	"L"	"L"	"H"	"H"
CAPM-CNT2 (pin ⑦④)	"L"	"H"	"L"	"H"

Pin No.	Pin Name	I/O	Description
76	CAP-M-H/L	O	High/normal speed selection signal output of the capstan motor (M1) “L”: normal speed, “H”: high speed
77	AMS-IN	I	Whether a music is present or not from HA12215F (IC301) is detected at automatic music sensor “L”: music is present, “H”: music is not present
78	TC-MUTE	O	Line muting on/off selection signal output to the HA12215F (IC301) “L”: muting off, “H”: muting on
79	R/P-PASS	O	Recording/playback/pass selection signal output to the HA12215F (IC301) “L”: recording mode, “H”: pass, “Hi-z”: playback mode
80	NR-ON/OFF	O	Dolby NR on/off selection signal output to the HA12215F (IC301) “L”: dolby off, “H”: dolby on
81	REC-MUTE	O	Recording muting on/off selection signal output to the HA12215F (IC301) “L”: muting on, “H”: muting off
82	BIAS	O	Recording bias on/off selection signal output to the HA12215F (IC301) “L”: bias off, “H”: bias on
83	EQ-H/N	O	Normal/high speed selection signal output to the HA12215F (IC301) “L”: normal speed, “H”: high speed
84	PB-A/B	O	Deck-A/B selection signal output to the HA12215F (IC301) “L”: deck-A, “H”: deck-B
85	ALC-ON/OFF	O	Automatic limiter control signal output to the HA12215F (IC301) “L”: limiter on
86	B-PLAY-SW	I	Detection input from the deck- B play detect switch (S1002) “H”: deck-B play
87	A-PLAY-SW	I	Detection input from the deck- A play detect switch (S1001) “H”: deck-A play
88	A-HALF	I	Detection input from the deck-A cassette detect switch (S1003) “L”: cassette in, “H”: no cassette
89	B-HALF	I	Detection input from the deck-B half detect switch (S1006)
90	B-SHUT	I	Shut off detection signal input from the deck-B side reel pulse detector (IC1002)
91	A-SHUT	I	Shut off detection signal input from the deck-A side reel pulse detector (IC1001)
92	SOFT-TEST	O	Output terminal for the software test (open)
93	KEY/CD-ADJ	I	Setting terminal for the CD adjustment mode
94	KEY/CD-ADJ	I	Setting terminal for the CD adjustment mode
95	MODEL-IN	I	Destination setting terminal
96	AVSS	—	Ground terminal (for A/D conversion)
97	SPEC-IN	I	Setting terminal for the version
98	AVREF	I	Reference voltage (+5V) input terminal (for A/D conversion)
99	AVCC	—	Power supply terminal (+5V) (for A/D conversion)
100	TC-RELAY	O	Recording/playback select signal output to the REC/PB switch (IC602) “L”: playback, “H”: recording

• **VIDEO BOARD IC502 M30620MC-A05FP (CD MECHANISM CONTROLLER)**

Pin No.	Pin Name	I/O	Description
1	SENSE	I	Internal status (SENSE) signal input from the CXD3008Q (IC101)
2	SENSE CLK	O	Sense serial data reading clock signal output to the CXD3008Q (IC101)
3	DSP DATA	O	Serial data output to the CXD3008Q (IC101)
4	DSP LATCH	O	Serial data latch pulse output to the CXD3008Q (IC101)
5	DSP CLK	O	Serial data transfer clock signal output to the CXD3008Q (IC101)
6	TSENS	I	Disc tray status detection signal input terminal Not used
7	REMOTE IN	I	Remote control signal input terminal Not used (open)
8	BYTE	I	External data bus line byte selection signal input "L": 16 bit, "H": 8 bit (fixed at "L")
9	VSS	—	Ground terminal
10	DSP MUTE	O	Muting on/off control signal output to the CXD3008Q (IC101) "H": muting on
11	CTRL1	O	Clock selection signal output to the CXD3008Q (IC101) "L": 16.9344 MHz (double speed), "H": 33.8688 MHz
12	$\overline{\text{XRESET}}$	I	Reset signal input from the system controller (IC501) "L": reset For several hundreds msec. after the power supply rises, "L" is input, then it changes to "H"
13	XOUT	O	Main system clock output terminal (10 MHz)
14	VSS	—	Ground terminal
15	XIN	I	Main system clock input terminal (10 MHz)
16	VCC	—	Power supply terminal (+5V)
17	NMI	I	Non-maskable interrupt input terminal (fixed at "H" in this set)
18	SCOR	I	Subcode sync (S0+S1) detection signal input from the CXD3008Q (IC101)
19	DSENS	I	Disc status detection signal input terminal Not used
20	$\overline{\text{CL680 HINT}}$	I	Interrupt request signal input from the MPEG video/audio decoder (IC505)
21	CL680 SEL	O	Command selection signal output to the MPEG video/audio decoder (IC505)
22	DF LATCH	O	Serial data latch pulse output to the D/A converter (IC509) "L" active
23	CL680 HRDY	I	Ready status detection signal input from the MPEG video/audio decoder (IC505)
24	$\overline{\text{CL680 RESET}}$	O	Reset signal output to the MPEG video/audio decoder (IC505) "L": reset
25	JOG1	I	Rotary encoder jog dial pulse input terminal Not used (fixed at "H")
26	JOG2	I	Rotary encoder jog dial pulse input terminal Not used (fixed at "H")
27	CTRL2	O	Laser power selection signal output to the CXA2568M (IC103) "H": double speed
28	LDON	O	Laser on/off selection signal output to the CXA2568M (IC103) "H": laser on
29	CLK	I/O	Communication data reading clock signal input or transfer clock signal output with the system controller (IC501) and fluorescent indicator tube driver (IC601)
30	DATA	I/O	Communication data bus with the system controller (IC501) and fluorescent indicator tube driver (IC601)
31	DATA1O	O	Serial data output to the MPEG video/audio decoder (IC505) and D/A converter (IC509)
32	DATA1I	I	Serial data input from the MPEG video/audio decoder (IC505)
33	CLK1	O	Serial data transfer clock signal output to the MPEG video/audio decoder (IC505) and D/A converter (IC509)
34	SHARPNESS	O	Sharpness control signal output of the video signal (Y signal) "H" active ("L": normal)
35	XVLEVEL. DOWN	O	Not used (open)
36	SUBQ DATA	I	Sub-code Q data input from the CXD3008Q (IC101)
37	SUBQ CLK	O	Sub-code Q data reading clock signal output to the CXD3008Q (IC101)
38	P.ON	O	Power on/off control signal output terminal Not used (open)
39	BUS XRDY	I	Ready signal input terminal Not used (fixed at "H")
40	BUS	O	Not used (open)
41	BUS XHOLD	I	Hold signal input terminal Not used (fixed at "H")

Pin No.	Pin Name	I/O	Description
42, 43	BUS	O	Not used (open)
44	SHIMUKE	I	Destination setting terminal "L": Chinese, "H": English (fixed at "H" in this set)
45	BUS	I	Vertical synchronized signal input from the MPEG video/audio decoder (IC505) "L" active
46	BUS XWRL	O	Not used (open)
47	LO.BOOST	O	Low boost control signal output terminal Not used (open)
48	AUDIO MUTE	O	Audio muting on/off control signal output terminal "L": muting on Not used (open)
49	LOAD OUT	O	Loading motor drive signal output terminal Not used (open)
50	LOAD IN	O	Loading motor drive signal output terminal Not used (open)
51	INSW	I	Disc detection (load in) switch input terminal Not used (fixed at "H")
52	OUTSW	I	Disc detection (load out) switch input terminal Not used (fixed at "H")
53	MODEL1	I	Destination setting terminal (fixed at "L")
54	MODEL2	I	Destination setting terminal (fixed at "L")
55	TBLL	O	Table motor drive signal output terminal Not used (open)
56	TBLR	O	Table motor drive signal output terminal Not used (open)
57 to 59	ENC1 to ENC3	I	Disc tray address detection signal input terminal Not used
60, 61	NCO	O	Not used (open)
62	VCC	—	Power supply terminal (+5V)
63	NCO	O	Not used (open)
64	VSS	—	Ground terminal
65	VMUTE	O	Video muting on/off control signal output terminal "L": muting on
66 to 71	A6 to A1	O	Address signal output for the external device Not used (open)
72	UTOI	O	Not used (open)
73	TEST LED	O	LED drive signal output for the self diagnosis indicator (D502) Normally: "L" (LED on)
74	TEST1	I	Setting terminal for the test mode 1 (for VCD check) Normally: fixed at "H" ("L": test mode)
75	TEST2	I	Setting terminal for the test mode 2 (for SERVO check) Normally: fixed at "H" ("L": test mode)
76	TEST3	I	Setting terminal for the test mode 3 Normally: fixed at "H" ("L": test mode) Not used (fixed at "H")
77	$\overline{\text{DEVICE RESET}}$	O	System reset signal output to the CXD3008Q (IC101), BA5974FP (IC102) and D/A converter (IC509) "L": reset
78	STANDBY	O	Standby on/off control signal output terminal Not used (open)
79	FL CS	O	Chip select signal output terminal Not used (open)
80	FLBLK	O	Blank control signal output terminal Not used (open)
81 to 88	D7 to D0	I/O	Two-way data bus with the external device Not used (open)
89	MIC CTRL	O	Mic control signal output terminal Not used
90 to 92	KEY1 to KEY3	I	Key input terminal Not used (fixed at "H")
93	NT/PAL	I	Video system select switch (S501) input terminal "L": PAL, "H": NTSC, Center voltage: AUTO
94	MUSIC VOL	I	Volume input terminal Not used (fixed at "H")
95	KEY4	I	Key input terminal Not used (fixed at "H")
96	AVSS	—	Ground terminal (for A/D conversion)
97	MODE. SW	I	Mode switch input terminal Not used
98	VREF	I	Reference voltage (+5V) input terminal (for A/D conversion)
99	AVCC	—	Power supply terminal (+5V) (for A/D conversion)
100	AMP. ON	O	Power amplifier on/off selection signal output terminal Not used (open)

• **VIDEO BOARD IC505 CL680T-D1 (MPEG VIDEO/AUDIO DECODER, VIDEO SIGNAL PROCESSOR)**

Pin No.	Pin Name	I/O	Description
1	NC	O	Not used (open)
2	VSS	—	Ground terminal
3	CD-BCK	I	CD decode bit clock signal (2.8224 MHz) input from the CXD3008Q (IC101)
4	CD-DATA	I	CD decode data input from the CXD3008Q (IC101)
5	CD-LRCK	I	CD decode L/R sampling clock signal (44.1 kHz) input from the CXD3008Q (IC101)
6	CD-C2PO	I	CD decode C2 error data input from the CXD3008Q (IC101)
7 to 9	NC	O	Not used (open)
10 to 15	MD0 to MD5	I/O	Two-way data bus with the D-RAM (IC507) Data input from the program ROM (IC506)
16	VSS	—	Ground terminal
17	MD6	I/O	Two-way data bus with the D-RAM (IC507) Data input from the program ROM (IC506)
18	VDD3	—	Power supply terminal (+3.3V)
19	MD7	I/O	Two-way data bus with the D-RAM (IC507) Data input from the program ROM (IC506)
20	VSS	—	Ground terminal
21	MD8	I/O	Two-way data bus with the D-RAM (IC507) Data output to the program ROM (IC506)
22	VDD3	—	Power supply terminal (+3.3V)
23 to 28	MD9 to MD14	I/O	Two-way data bus with the D-RAM (IC507) Data output to the program ROM (IC506)
29	MD15	I/O	Two-way data bus with the D-RAM (IC507)
30 to 36	NC	O	Not used (open)
37	$\overline{\text{MCE}}$	O	Chip enable signal output to the program ROM (IC506)
38	$\overline{\text{MWE}}$	O	Write enable signal output to the D-RAM (IC507)
39	VSS	—	Ground terminal
40	$\overline{\text{CAS}}$	O	Column address strobe signal output to the D-RAM (IC507)
41	VDD3	—	Power supply terminal (+3.3V)
42	$\overline{\text{RAS0}}$	O	Row address strobe signal output to the D-RAM (IC507)
43	$\overline{\text{RAS1}}$	O	Row address strobe signal output terminal Not used (open)
44, 45	MA10, MA9	O	Address signal output to the program ROM (IC506)
46	MA8	O	Address signal output to the program ROM (IC506) and D-RAM (IC507)
47	VSS	—	Ground terminal
48	MA7	O	Address signal output to the program ROM (IC506) and D-RAM (IC507)
49	VDD3	—	Power supply terminal (+3.3V)
50 to 52	MA6 to MA4	O	Address signal output to the program ROM (IC506) and D-RAM (IC507)
53	VSS	—	Ground terminal
54	MA3	O	Address signal output to the program ROM (IC506) and D-RAM (IC507)
55	VDD3	—	Power supply terminal (+3.3V)
56 to 58	MA2 to MA0	O	Address signal output to the program ROM (IC506) and D-RAM (IC507)
59	PGIO7	I/O	Not used (open)
60	$\overline{\text{RESET}}$	I	Reset signal input from the CD mechanism controller (IC502) “L”: reset
61	VDDMAX-IN	I	Fix the maximum input voltage each input terminal and in/out terminal
62 to 64	NC	O	Not used (open)
65	AGND-DAC	—	Ground terminal (for D/A converter)
66	AVDD-DAC	—	Power supply terminal (+3.3V) (for D/A converter)
67	COMPOS OUT	O	Composite video signal output terminal Not used (open)
68	AGND-DAC	—	Ground terminal (for D/A converter)
69	Y-OUT	O	Luminance video signal output terminal
70	AVDD-DAC	—	Power supply terminal (+3.3V) (for D/A converter)
71	AGND-DAC	—	Ground terminal (for D/A converter)

Pin No.	Pin Name	I/O	Description
72	RREF	I	Fix the video signal output level control
73	VREF	O	Reference voltage (+1.235V) output terminal
74	AVDD-DAC	—	Power supply terminal (+3.3V) (for D/A converter)
75	C-OUT	O	Chrominance video signal output terminal
76	AGND-DAC	—	Ground terminal (for D/A converter)
77	CLK-SEL0	I	GCK (pin ⑮) selection terminal "L": external clock, "H": internal clock (fixed at "H")
78	CLK-SEL1	I	DA-XCLK (pin ⑯) selection (1) terminal Fixed at "H" in this set
79	CLK-SEL2	I	DA-XCLK (pin ⑯) selection (2) terminal Fixed at "H" in this set
80	VSS	—	Ground terminal
81	RESERVED	I	Selection the operation clock 42.336 MHz (fixed at "L")
82	VDD3	—	Power supply terminal (+3.3V)
83	DA-EMP	O	Not used (open)
84	RESERVED	O	Not used (open)
85	AGND-PLL	—	Ground terminal (for PLL system)
86	DA-XCLK	I	Main reference clock signal (16.9344 MHz=384fs) from the D/A converter (IC509)
87	AVDD-PLL	—	Power supply terminal (+3.3V) (for PLL system)
88	PGIO4	I/O	Not used (open)
89	PGIO5	I/O	Not used (open)
90	PGIO6	I/O	Not used (open)
91	PGIO0	I/O	Not used (open)
92	PGIO8	I/O	Not used (open)
93	PGIO2/$\overline{\text{VSYNC}}$/ CSYNC	O	Vertical synchronized signal output to the CD mechanism controller (IC502)
94	AVDD-PLL	—	Power supply terminal (+3.3V) (for PLL system)
95 to 97	NC	O	Not used (open)
98	AGND-PLL	—	Ground terminal (for PLL system)
99	VSS	—	Ground terminal
100	NC	O	Not used (open)
101	PGIO3/$\overline{\text{HSYNC}}$	I/O	Not used (open)
102	VDD3	—	Power supply terminal (+3.3V)
103	PGIO1/VCK-OUT	I/O	Not used (open)
104	VSS	—	Ground terminal
105	GCK	I	Not used (open)
106	VCK-IN	I	Main clock for video signal processor input from the D/A converter (IC509) (27 MHz)
107	GCKOUT/DA-EMP	O	Not used (open)
108	DA-LRCK	O	Digital audio L/R sampling clock signal (44.1 kHz) output to the D/A converter (IC509)
109	VDDMAX-OUT	O	Fix the maximum output voltage (+5V) certain output terminal
110	DA-DATA	O	Digital audio data output to the D/A converter (IC509)
111	DA-BCK	O	Digital audio bit clock signal (2.8224 MHz) output to the D/A converter (IC509)
112	HD-OUT	O	Serial data output to the CD mechanism controller (IC502)
113	HRDY	O	Ready signal output to the CD mechanism controller (IC502)
114	$\overline{\text{HINT}}$	O	Interrupt request signal output to the CD mechanism controller (IC502)
115	CDG-SCK	I/O	Not used (open)
116	VSS	—	Ground terminal
117	HCK	I	Serial data transfer clock signal input from the CD mechanism controller (IC502)
118	VDD3	—	Power supply terminal (+3.3V)
119	HD-IN	I	Serial data input from the CD mechanism controller (IC502)

Pin No.	Pin Name	I/O	Description
120	VDD3	—	Power supply terminal (+3.3V)
121	HSEL	I	Command selection signal input from the CD mechanism controller (IC502)
122	CDG-SDATA	I	Not used (fixed at “L”)
123	CDG-VFSY	I	Not used (fixed at “L”)
124	CDG-S0S1	I	Not used (fixed at “L”)
125 to 128	NC	O	Not used (open)

• PANEL BOARD IC601 TMP88CS76F-6005 (FLUORESCENT INDICATOR TUBE DRIVER, KEY CONTROL)

Pin No.	Pin Name	I/O	Description
1	SIRCS	I	Remote control signal input from the remote control receiver (IC602)
2	JOG-A	I	Jog dial pulse input from the rotary encoder (S601 JOG) (A phase input)
3	LED SCK	O	Serial data transfer clock signal output to the LED driver (IC604)
4	LED LAT	O	Serial data latch pulse signal output to the LED driver (IC604)
5	LED DATA	O	Serial data output to the LED driver (IC604)
6	PAD LAT	O	Not used (open)
7	L SEL	O	LED selection signal output terminal
8	JOG-B	I	Jog dial pulse input from the rotary encoder (S601 JOG) (B phase input)
9	VOL-A	I	Jog dial pulse input from the rotary encoder (S602 VOLUME) (A phase input)
10	VOL-B	I	Jog dial pulse input from the rotary encoder (S602 VOLUME) (B phase input)
11	KEY0	I	Key input terminal (A/D input) (S625 to S630 and S632 to S635) REC PAUSE/START, HI-DUB, CD SYNC, CD LOOP, DISPLAY, SPECTRUM ANALYZER, SELECT, RETURN, PREV, NEXT keys input
12	KEY1	I	Key input terminal (A/D input) (S611 to S624) SYNC BASS, SYNC EQ, KARAOKE PON/MPX, CD NON-STOP, CINEMA SPACE SURROUND, DBFB, ENTER/NEXT, + ▶▶, – ◀◀, GROOVE, CD FLASH, REPEAT STEREO/MONO, PLAY MODE DOLBY NR, EDIT DIRECTION TUNER MEMORY keys input
13	KEY2	I	Key input terminal (A/D input) (S638 to S642 and S751 to S757) TIMER SELECT, P FILE MEMORY, GEQ CONTROL, FILE SELECT, EFFECT, I/⏻, (STANDBY) POWER SAVE DEMO, DISC 1/2/3, DISC SKIP EX-CHANGE, ⏏ keys input
14	KEY3	I	Key input terminal (A/D input) (S643 to S651) TUNER/BAND, ► ❚❚ CD, ■, ► TAPE B, ◄ TAPE B, ► TAPE A, ◄ TAPE A, FUNCTION, CLOCK/TIMER SET keys input
15	GRAD L2	O	Not used (open)
16	S LOW FREQ (BPF0)	I	Spectrum analyzer drive (super low frequency) signal input from the spectrum analyzer band-pass filter (IC603) (for 40 Hz)
17	BPF1	I	Spectrum analyzer drive (low frequency) signal input from the spectrum analyzer band-pass filter (IC603) (for 100 Hz)
18	BPF2	I	Spectrum analyzer drive (low and middle frequency) signal input from the spectrum analyzer band-pass filter (IC603) (for 400 Hz)
19	BPF3	I	Spectrum analyzer drive (middle and high frequency) signal input from the spectrum analyzer band-pass filter (IC603) (for 2 kHz)
20	BPF4	I	Spectrum analyzer drive (high frequency) signal input from the spectrum analyzer band-pass filter (IC603) (for 6 kHz)
21	ALL BAND (L+R)	I	Spectrum analyzer drive signal input from the spectrum analyzer band-pass filter (IC603) (for VACS, non-stop signal)
22	WAKE UP	O	Wakeup control signal output to the system controller (IC501) "H" active
23	VSS	—	Ground terminal
24	VASS	—	Ground terminal (for A/D conversion)
25	VAREF	I	Reference voltage (+5V) input terminal (for A/D conversion)
26	VDD	—	Power supply terminal (+5V)
27 to 32	G18 to G13	O	Grid drive signal output to the fluorescent indicator tube (FL601)
33 to 40	G12 to G5	O	Grid drive signal output to the fluorescent indicator tube (FL601)
41	VDD	—	Power supply terminal (+5V)
42 to 44	G4 to G2	O	Grid drive signal output to the fluorescent indicator tube (FL601)
45	G1	O	Grid drive signal output to the fluorescent indicator tube (FL601)
46 to 67	S1 to S22	O	Segment drive signal output to the fluorescent indicator tube (FL601)
68	VKK	—	Power supply terminal (–30V) (for fluorescent indicator tube drive)

Pin No.	Pin Name	I/O	Description
69	VDD	—	Power supply terminal (+5V)
70	XIN	I	System clock input terminal (12.5 MHz)
71	VSS	—	Ground terminal
72	XOUT	O	System clock output terminal (12.5 MHz)
73	$\overline{\text{RESET}}$	I	System reset signal input from the reset signal generator (IC502) "L": reset For several hundreds msec. after the power supply rises, "L" is input, then it changes to "H"
74	CH	O	Not used (open)
75	BUSY	I	Not used (fixed at "L")
76	TEST	I	Connected to ground
77	GRAD R1	O	Not used (open)
78	I2C DATA	I/O	Communication data bus with the system controller (IC501) and CD mechanism controller (IC502)
79	I2C CLK	I/O	Communication data reading clock signal input or transfer clock signal output with the system controller (IC501) and CD mechanism controller (IC502)
80	GRAD R2	O	Not used (open)

SECTION 8
EXPLODED VIEWS

NOTE:

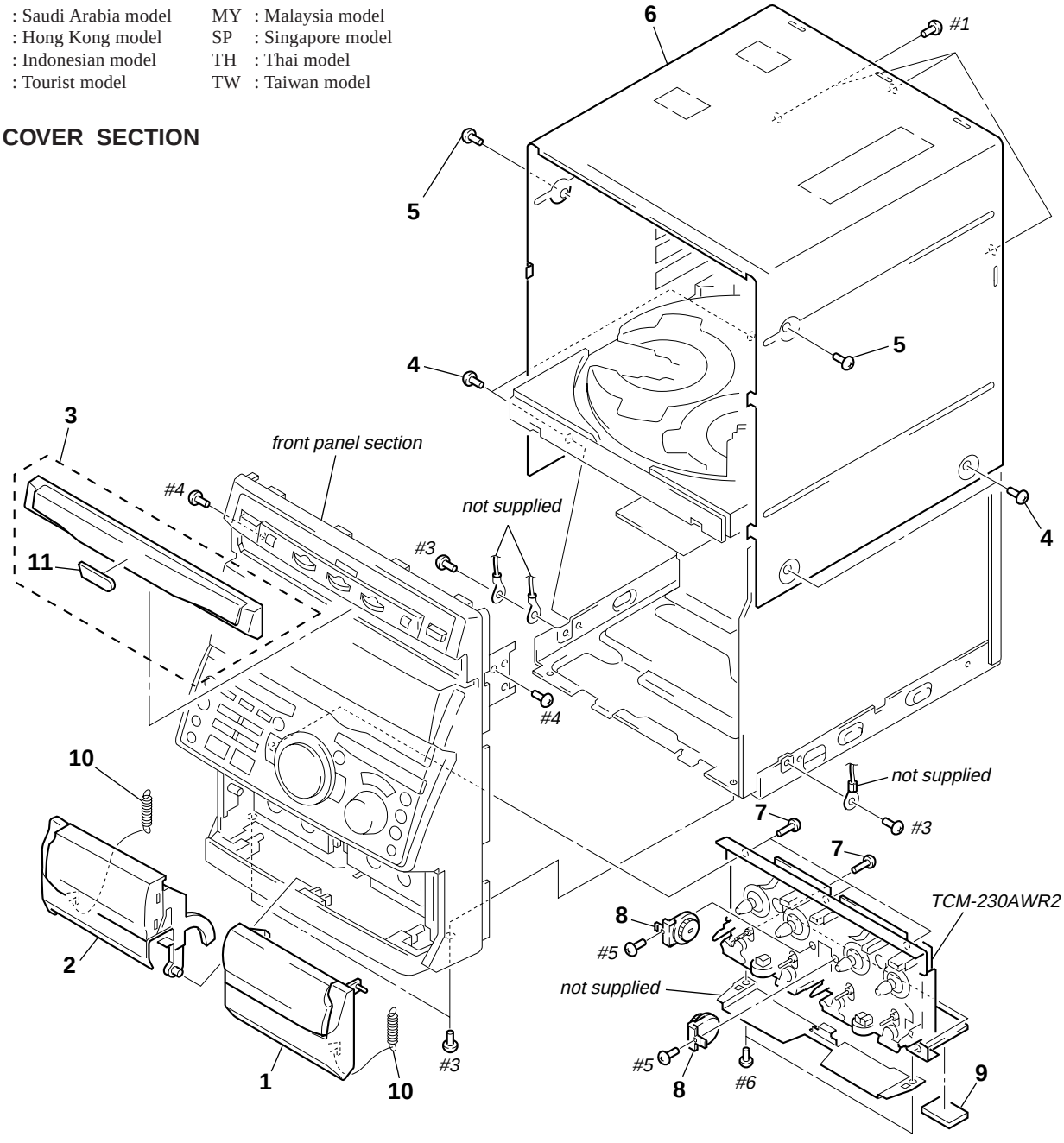
- -XX and -X mean standardized parts, so they may have some difference from the original one.
- Color Indication of Appearance Parts
  Example:
  KNOB, BALANCE (WHITE) . . . (RED)
  ↑ ↑
  Parts Color Cabinet's Color
- Abbreviation

EA	: Saudi Arabia model	MY	: Malaysia model
HK	: Hong Kong model	SP	: Singapore model
IA	: Indonesian model	TH	: Thai model
JE	: Tourist model	TW	: Taiwan model

- Items marked "*" are not stocked since they are seldom required for routine service. Some delay should be anticipated when ordering these items.
- The mechanical parts with no reference number in the exploded views are not supplied.
- Hardware (# mark) list is given in the last of the electrical parts list.

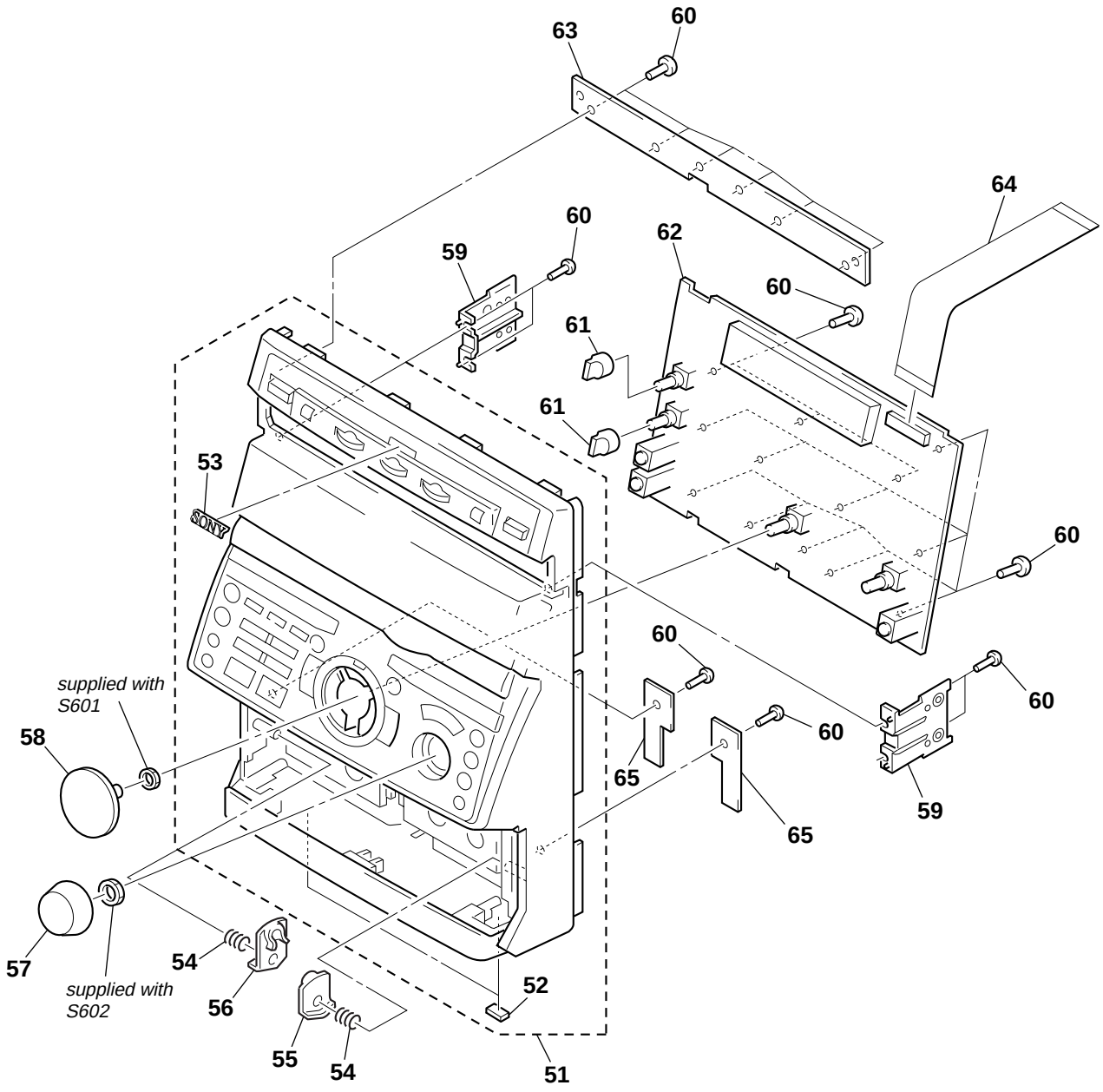
The components identified by mark ⚠ or dotted line with mark ⚠ are critical for safety.
Replace only with part number specified.

(1) COVER SECTION



Ref. No.	Part No.	Description	Remark
1	X-4950-832-1	HOLDER (R) ASSY, CASSETTE (SILVER)	
1	X-4950-971-1	HOLDER (R) ASSY, CASSETTE (GRAY)	
2	X-4950-828-1	HOLDER (L) ASSY, CASSETTE (SILVER)	
2	X-4950-970-1	HOLDER (L) ASSY, CASSETTE (GRAY)	
3	X-4950-961-1	PANEL ASSY, LOADING (VX5A) (GRAY)	
3	X-4950-963-1	PANEL ASSY, LOADING (VX7A) (GRAY)	
3	X-4951-026-1	PANEL ASSY, LOADING (VX5A) (SILVER)	
3	X-4951-027-1	PANEL ASSY, LOADING (VX7A) (SILVER)	
3	X-4951-577-1	PANEL ASSY, LOADING (VX5AJ)	
4	3-363-099-01	SCREW (CASE 3 TP2) (3X8) (GRAY)	
4	3-363-099-11	SCREW (CASE 3 TP2) (3X8) (SILVER)	
5	3-363-099-41	SCREW (CASE 3 TP2) (3X12) (GRAY)	
5	3-363-099-71	SCREW (CASE 3 TP2) (3X12) (SILVER)	
6	4-215-179-01	COVER (SILVER)	
* 6	4-215-752-61	COVER (GRAY)	
7	4-951-620-01	SCREW (2.6X8), +BVTP	
8	4-215-062-01	DAMPER	
9	4-985-642-01	CUSHION	
10	4-219-087-01	SPRING, TENSION	
11	4-991-781-01	EMBLEM (VCD)	

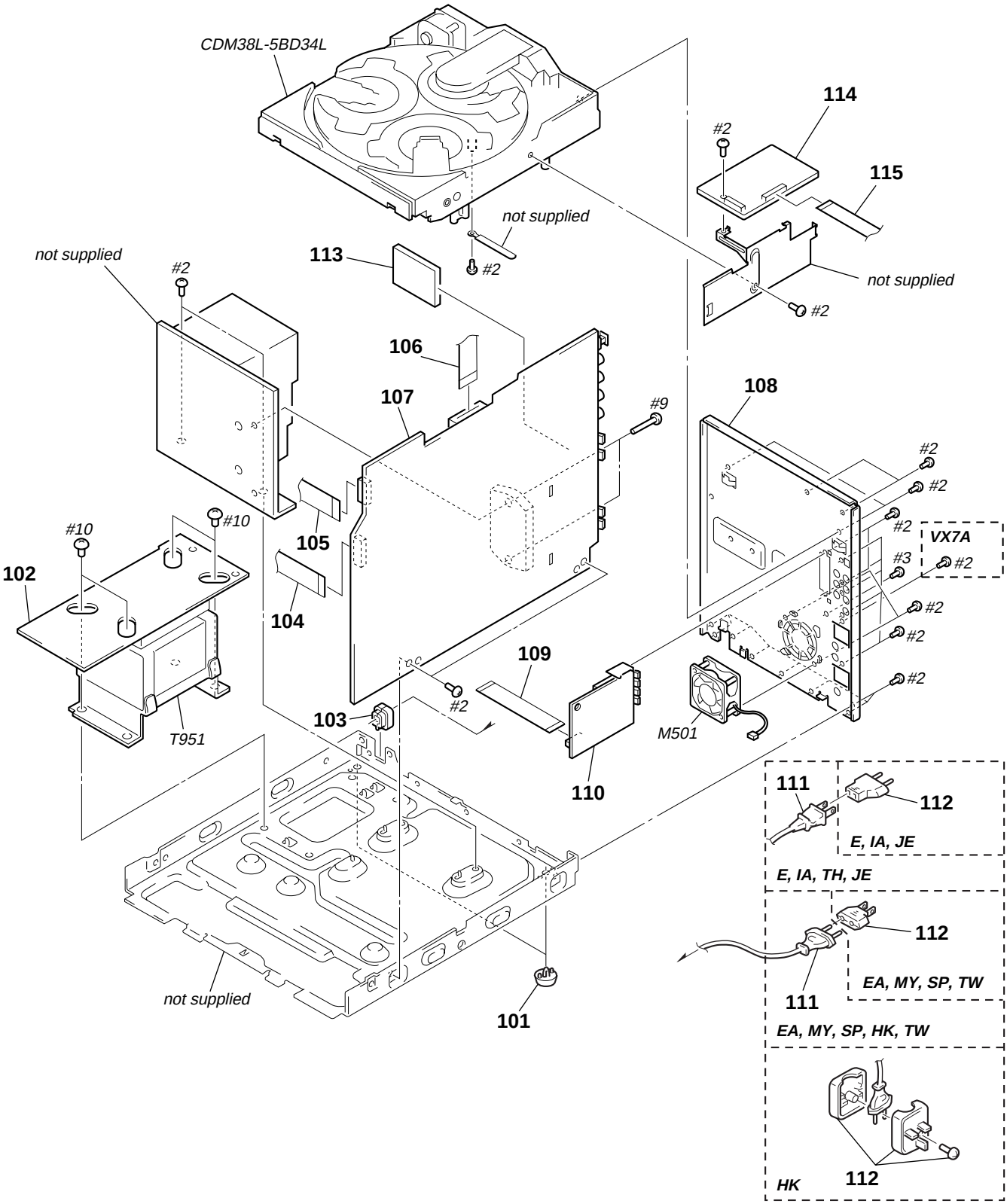
(2) FRONT PANEL SECTION



Ref. No.	Part No.	Description	Remark
51	X-4951-029-1	PANEL ASSY, FRONT (VX7A) (SILVER)	
51	X-4951-030-1	PANEL ASSY, FRONT (VX5A/VX5AJ) (SILVER)	
51	X-4951-454-1	PANEL ASSY, FRONT (VX5A/VX5AJ) (GRAY)	
51	X-4951-455-1	PANEL ASSY, FRONT (VX7A) (GRAY)	
52	4-930-336-61	FOOT (FELT)	
53	4-962-708-71	EMBLEM (4-A), SONY	
54	4-214-775-11	SPRING, PUSH CATCHER RETURN	
55	4-214-761-11	CATCHER (B), PUSH	
56	4-214-760-11	CATCHER (A), PUSH	
57	4-214-384-11	KNOB (VOL) (SILVER)	
57	4-214-384-51	KNOB (VOL) (GRAY)	
58	4-214-383-11	KNOB (JOG) (SILVER)	
58	4-214-383-51	KNOB (JOG) (GRAY)	
* 59	4-996-716-01	HOLDER (CDM)	
60	4-951-620-01	SCREW (2.6X8), +BVTP	

Ref. No.	Part No.	Description	Remark
61	4-214-385-11	KNOB (MIC) (SILVER)	
61	4-214-385-51	KNOB (MIC) (GRAY)	
62	A-4419-160-A	PANEL BOARD, COMPLETE	(VX7A: E, EA, MY, SP)
62	A-4419-152-A	PANEL BOARD, COMPLETE	(VX7A: E, EA, MY, SP, HK, TW)
62	A-4426-093-A	PANEL BOARD, COMPLETE (VX5AJ)	
62	A-4426-139-A	PANEL BOARD, COMPLETE (VX5A: IA)	
62	A-4426-147-A	PANEL BOARD, COMPLETE (VX7A: IA)	
62	A-4426-156-A	PANEL BOARD, COMPLETE (VX5A: TH)	
62	A-4426-164-A	PANEL BOARD, COMPLETE (VX7A: TH)	
63	A-4419-984-A	CD SW BOARD, COMPLETE	
64	1-773-188-11	WIRE (FLAT TYPE) (23 CORE) (23cm)	
65	1-674-232-11	PWB, PUSH CATCH STOP	

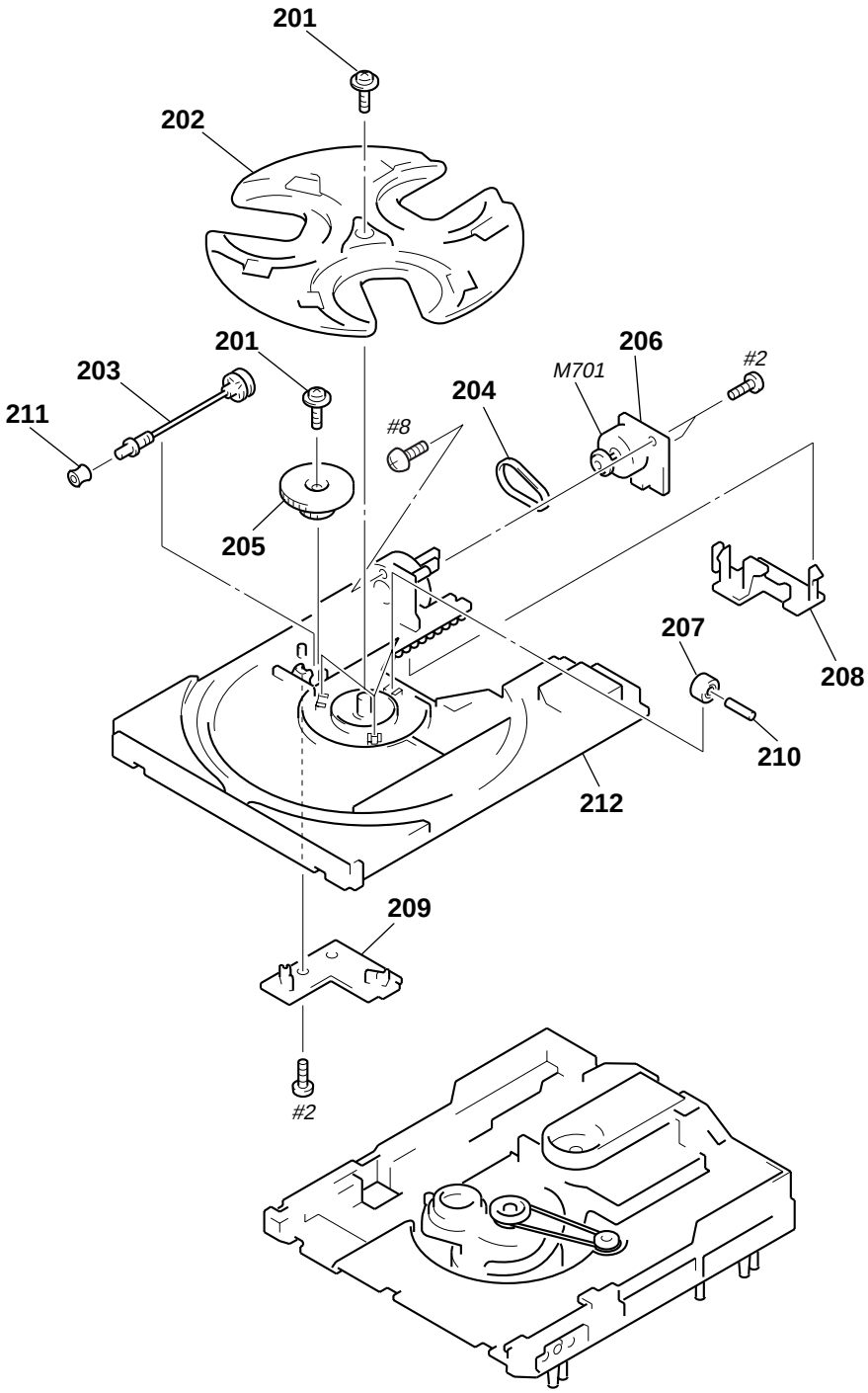
(3) CHASSIS SECTION



Ref. No.	Part No.	Description	Remark
101	4-965-822-01	FOOT	
* 102	1-672-369-11	TRANSFORMER BOARD	
* 103	3-703-244-00	BUSHING (2104), CORD (VX5A: EA, MY, SP, HK, TW/VX5AJ: EA/VX7A: EA, MY, SP)	
103	3-703-571-11	BUSHING (S) (4516), CORD (VX5A: E, TH/VX5AJ: E, JE/VX7A: E, TH)	
103	4-966-266-01	BUSHING (S) (FBS002), CORD (VX5A: IA/VX7A: IA)	
104	1-773-043-11	WIRE (FLAT TYPE) (17 CORE)	
105	1-773-024-11	WIRE (FLAT TYPE) (15 CORE) (32cm)	
106	1-783-949-11	WIRE (FLAT TYPE) (13 CORE) (17cm)	
107	A-4419-156-A	MAIN BOARD, COMPLETE (VX5A: E, MY, SP, HK, TW)	
107	A-4419-164-A	MAIN BOARD, COMPLETE (VX7A: E, MY, SP)	
107	A-4419-661-A	MAIN BOARD, COMPLETE (VX5A: EA)	
107	A-4419-663-A	MAIN BOARD, COMPLETE (VX7A: EA)	
107	A-4426-090-A	MAIN BOARD, COMPLETE (VX5AJ: E)	
107	A-4426-098-A	MAIN BOARD, COMPLETE (VX5AJ: JE)	
107	A-4426-100-A	MAIN BOARD, COMPLETE (VX5AJ: EA)	
107	A-4426-135-A	MAIN BOARD, COMPLETE (VX5A: IA)	
107	A-4426-143-A	MAIN BOARD, COMPLETE (VX7A: IA)	
107	A-4426-160-A	MAIN BOARD, COMPLETE (VX5A: TH)	
107	A-4426-167-A	MAIN BOARD, COMPLETE (VX7A: TH)	
108	4-215-639-01	PANEL, BACK (VX5A: EA)	
108	4-215-639-11	PANEL, BACK (VX5A: MY, SP)	
108	4-215-639-21	PANEL, BACK (VX5A: TW)	
108	4-215-639-31	PANEL, BACK (VX5A: E)	
108	4-215-639-41	PANEL, BACK (VX5A: TH)	
108	4-215-639-51	PANEL, BACK (VX5A: HK)	
108	4-215-639-61	PANEL, BACK (VX5A: IA)	
108	4-215-639-71	PANEL, BACK (VX5AJ: EA)	
108	4-215-639-81	PANEL, BACK (VX5AJ: JE)	
108	4-215-639-91	PANEL, BACK (VX5AJ: E)	
108	4-215-640-01	PANEL, BACK (VX7A: EA)	
108	4-215-640-11	PANEL, BACK (VX7A: MY, SP)	
108	4-215-640-41	PANEL, BACK (VX7A: E, IA, TH)	
109	1-769-977-11	WIRE (FLAT TYPE) (13 CORE) (15cm) (VX5A: TH/VX7A: TH)	
109	1-773-009-11	WIRE (FLAT TYPE) (15 CORE) (15cm) (VX5A: E, EA, MY, SP, IA, HK, TW/VX5AJ/VX7A: E, EA, MY, SP, IA)	
110	1-233-545-11	TUNER (FM/AM) (VX5A: TH/VX7A: TH)	
110	1-233-546-11	TUNER (FM/MW/SW) (VX5A: E, EA, MY, SP, IA, HK, TW/VX5AJ: E, EA/VX7A: E, EA, MY, SP, IA)	
110	1-693-465-11	TUNER (PACK) (VX5AJ: JE)	
⚠111	1-575-651-11	CORD, POWER (VX5A: EA, MY, SP, HK, TW/VX5AJ: EA/VX7A: EA, MY, SP)	
⚠111	1-575-653-11	CORD, POWER (VX5A: E, IA, TH/VX5AJ: E, JE/VX7A: E, IA, TH)	
⚠112	1-569-007-11	ADAPTOR, CONVERSION 2P (VX5A: E, IA/VX5AJ: E, JE/VX7A: E, IA)	
⚠112	1-569-008-21	ADAPTOR, CONVERSION 2P (VX5A: EA, MY, SP, TW/VX5AJ: EA/VX7A: EA, MY, SP)	
⚠112	1-770-019-11	ADAPTOR, CONVERSION PLUG 3P (VX5A: HK)	
113	A-4426-097-A	SURROUND BOARD, COMPLETE	
114	A-4724-823-A	VIDEO BOARD, COMPLETE	
115	1-775-212-11	WIRE (FLAT TYPE) (23 CORE) (18cm)	
M501	1-698-792-11	FAN, DC	
⚠T951	1-433-561-21	TRANSFORMER, POWER (VX7A)	
⚠T951	1-433-565-11	TRANSFORMER, POWER (VX5A)	
⚠T951	1-433-565-21	TRANSFORMER, POWER (VX5AJ)	

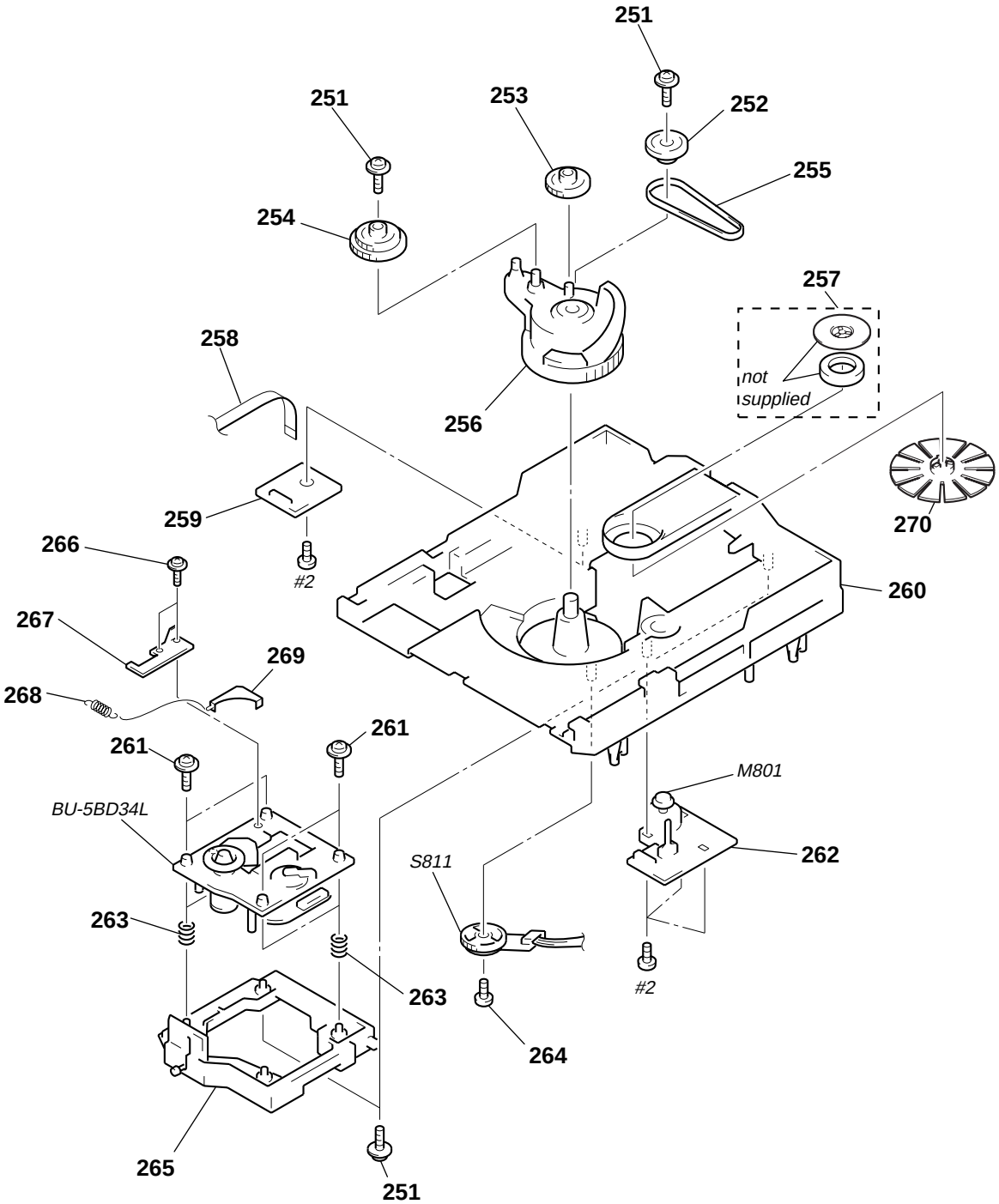
The components identified by mark ⚠ or dotted line with mark ⚠ are critical for safety.
Replace only with part number specified.

(4) CD MECHANISM DECK SECITON-1 (CDM38L-5BD34L)



Ref. No.	Part No.	Description	Remark
201	4-981-789-01	BRACKET (2), YOKE	
202	4-977-945-63	TRAY (TURN)	
203	X-4946-665-1	SHAFT ASSY, WORM	
204	4-977-943-01	BELT (TURN) (1.2)	
205	4-977-956-01	WHEEL, WORM	
* 206	1-658-577-11	MOTOR (TURN) BOARD	
207	4-988-162-01	ROLLER	
208	4-977-941-01	BEARING (WORM)	
* 209	1-658-576-11	SENSOR BOARD	
210	4-934-376-01	SHAFT (ROLLER)	
211	4-981-187-01	COLLAR (WORM)	
212	4-998-503-01	TRAY (SLIDE)	
M701	A-4672-004-A	MOTOR ASSY (DISC TRAY TURN)	

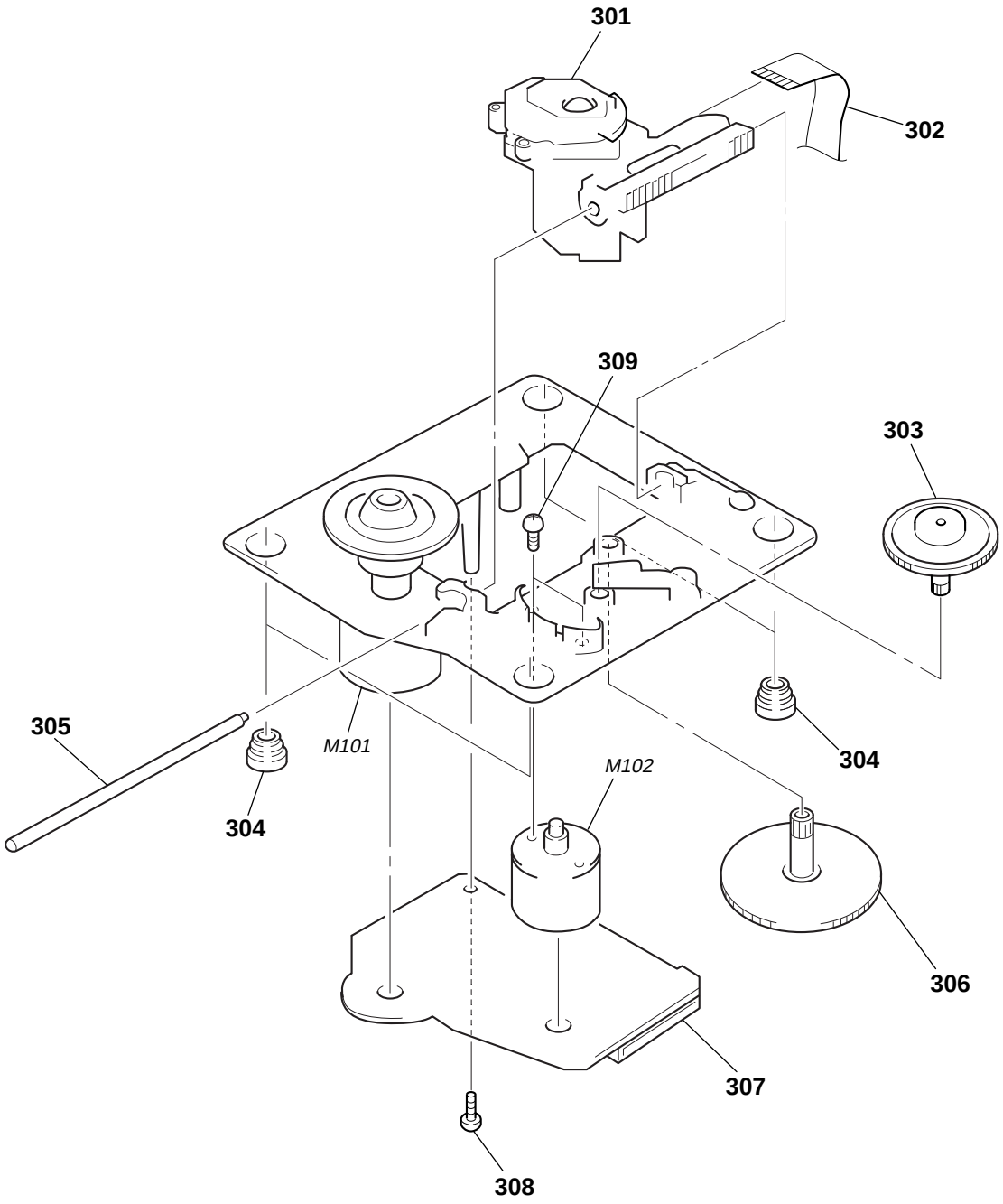
(5) CD MECHANISM DECK SECITON-2 (CDM38L-5BD34L)



Ref. No.	Part No.	Description	Remark
251	4-981-789-11	BRACKET (2), YOKE	
252	4-977-954-01	PULLEY (SL)	
253	4-977-953-01	GEAR (SL-A)	
254	4-977-955-01	GEAR (SL-B)	
255	4-977-942-01	BELT (SL) (1.4)	
256	X-4946-491-1	CAM ASSY, BU	
257	1-452-925-21	MAGNET ASSY	
258	1-776-042-11	WIRE (FLAT TYPE) (8 CORE)	
* 259	1-658-575-11	CONNECTOR BOARD	
* 260	X-4950-020-2	CHASSIS (CDM) ASSY	
261	4-985-672-01	SCREW (+PTPWHM2.6), FLOATING	

Ref. No.	Part No.	Description	Remark
* 262	1-658-578-11	MOTOR (SLIDE) BOARD	
263	4-982-447-01	SPRING (BU), COMPRESSION	
264	4-951-620-41	SCREW (2.6), +BVTP	
265	X-4949-570-1	HOLDER (BU) ASSY	
266	4-989-494-01	SCREW (SLIDER), STEP	
267	4-989-492-11	SLIDER (38)	
268	4-989-819-02	SPRING, TENSION	
269	4-989-491-11	COVER (2), LENS	
270	4-993-142-21	PULLEY (L), PRESS	
M801	A-4672-004-A	MOTOR ASSY (DISC TRAY SLIDE)	
S811	1-473-335-11	ENCODER, ROTARY (BU, TRAY ADDRESS DET)	

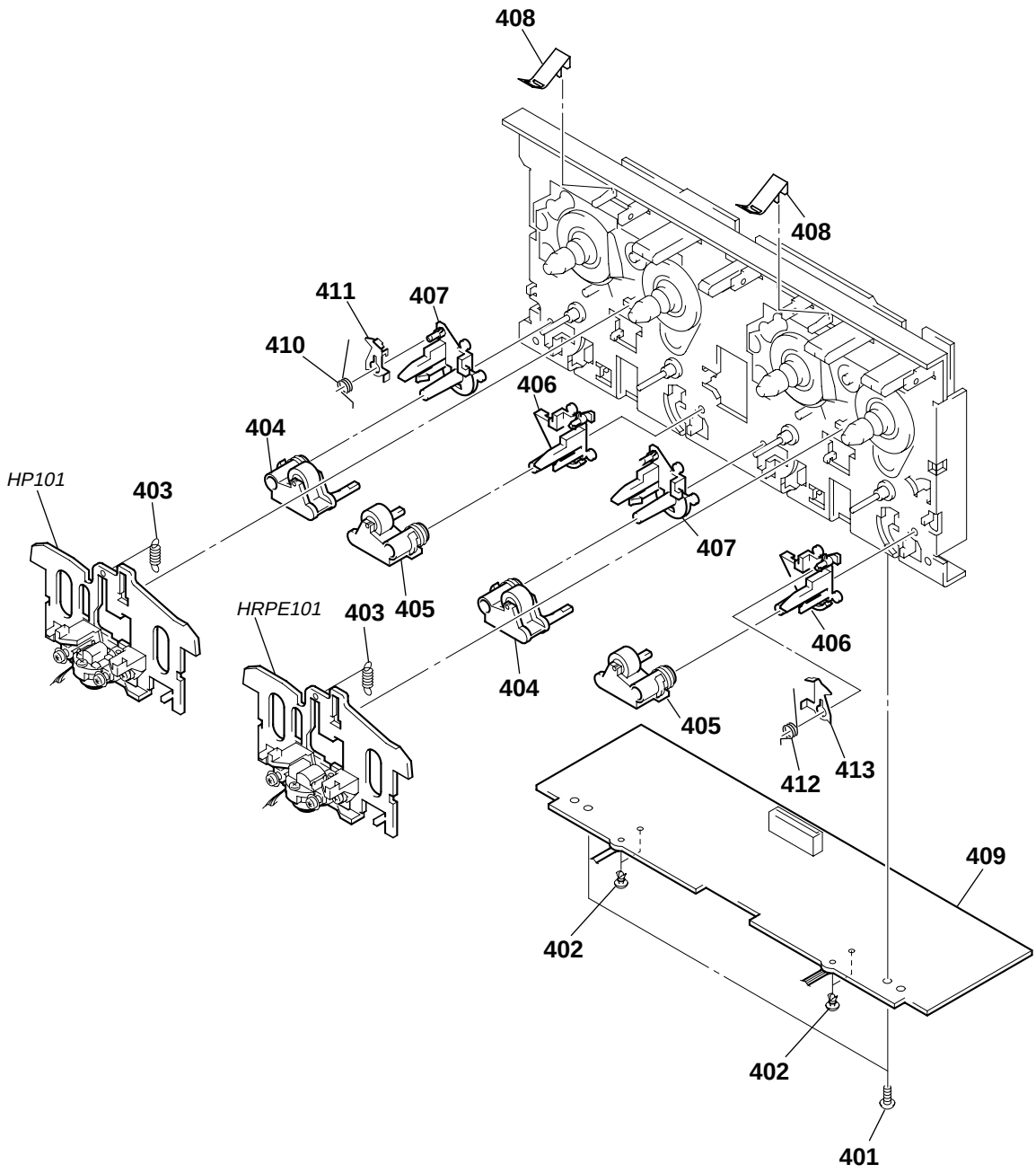
(6) BASE UNIT SECTION (BU-5BD34L)



The components identified by mark ⚠ or dotted line with mark ⚠ are critical for safety.
Replace only with part number specified.

Ref. No.	Part No.	Description	Remark
⚠301	8-820-020-02	OPTICAL PICK-UP KSS-213D/Q-NP	
302	1-769-069-11	WIRE (FLAT TYPE) (16 CORE)	
303	4-917-567-01	GEAR (M)	
304	4-951-940-01	INSULATOR (BU)	
305	4-917-565-01	SHAFT, SLED	
306	4-917-564-01	GEAR (P), FLATNESS	
307	A-4724-640-A	BD BOARD, COMPLETE	
308	4-951-620-01	SCREW (2.6X8), +BVTP	
309	3-713-786-51	SCREW +P 2X3	
M101	X-4917-523-4	MOTOR ASSY (SPINDLE)	
M102	X-4917-504-1	MOTOR ASSY (SLED)	

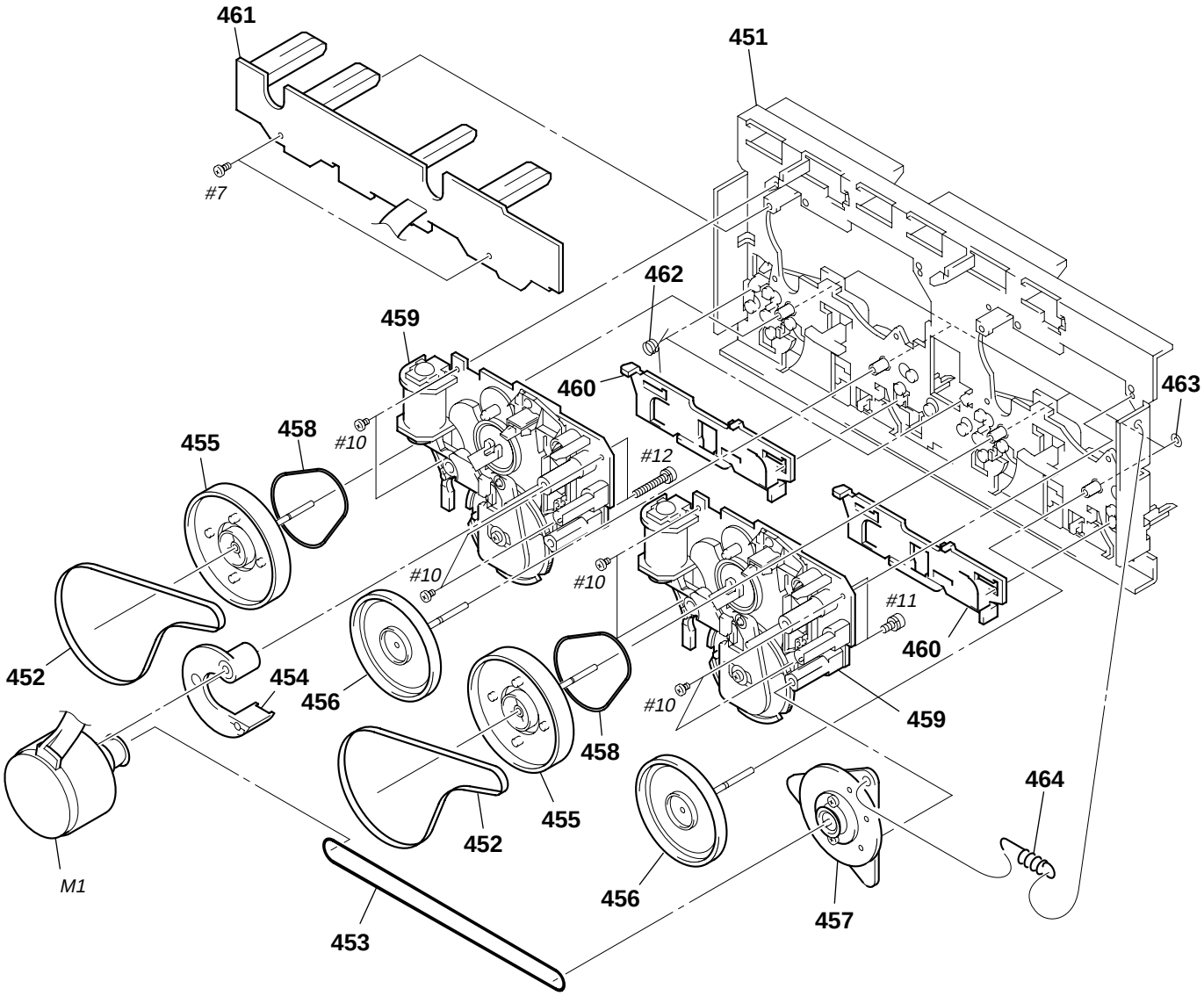
(7) TAPE MECHANISM DECK SECTION-1 (TCM-230AWR2)



Ref. No.	Part No.	Description	Remark
401	3-376-464-11	SCREW (+PTT 2.6X6), GROUND POINT	
402	3-036-914-01	RIVET	
403	3-016-574-11	SPRING (HEAD), TENSION	
404	X-3374-156-4	PINCH LEVER (REV) ASSY	
405	X-3374-155-4	PINCH LEVER (FWD) ASSY	
406	3-016-564-01	BASE (PINCH LEVER FWD)	
407	3-016-565-01	BASE (PINCH LEVER REV)	
408	3-026-892-01	SPRING (CASSETTE), LEAF	

Ref. No.	Part No.	Description	Remark
* 409	A-2007-731-A	AUDIO BOARD, COMPLETE	
410	3-032-809-02	SPRING (L), TORSION	
411	3-016-572-01	LEVER (EJECT PREVENTION L)	
412	3-032-810-02	SPRING (R), TORSION	
413	3-016-573-01	LEVER (EJECT PREVENTION R)	
HP101	A-2056-681-A	DECK (A) ASSY, HEAD	
HRPE101	A-2056-682-A	DECK (B) ASSY, HEAD	

(8) TAPE MECHANISM DECK SECTION-2 (TCM-230AWR2)



Ref. No.	Part No.	Description	Remark
* 451	X-3374-214-3	CHASSIS ASSY, MAIN	
452	3-016-570-01	BELT (CAPSTAN)	
453	3-016-569-01	BELT (TENSION)	
454	3-017-360-01	BRACKET (MOTOR)	
455	X-3376-497-1	FLYWHEEL (FWD) ASSY	
456	X-3374-235-1	FLYWHEEL (REV) ASSY	
457	X-3374-238-1	PULLEY ASSY, TENSION	
458	3-024-405-01	BELT (FR2)	
459	A-2004-629-A	MECHANICAL BLOCK ASSY	
460	3-016-566-01	SLIDER, REVERSE	
* 461	A-2007-732-A	LEAF SW BOARD, COMPLETE	
462	3-016-575-11	SPRING, TORSION	
463	3-019-208-01	WASHER, STOPPER	
464	3-027-453-01	SPRING (GROUND), TENSION	
465	3-030-823-01	SCREW (+BVTT) (2X3.5)	
M1	A-2004-628-A	MOTOR ASSY, CAPSTAN	

SECTION 9
ELECTRICAL PARTS LIST

AUDIO

NOTE:

- Due to standardization, replacements in the parts list may be different from the parts specified in the diagrams or the components used on the set.
- -XX and -X mean standardized parts, so they may have some difference from the original one.
- RESISTORS
  All resistors are in ohms.
  METAL: Metal-film resistor.
  METAL OXIDE: Metal oxide-film resistor.
  F: nonflammable
- Abbreviation
  EA : Saudi Arabia model
  HK : Hong Kong model
  IA : Indonesian model
  JE : Tourist model
  MY : Malaysia model
  SP : Singapore model
  TH : Thai model
  TW : Taiwan model
- Items marked "*" are not stocked since they are seldom required for routine service. Some delay should be anticipated when ordering these items.
- SEMICONDUCTORS
  In each case, u: µ, for example:
  uA. . : µA. . uPA. . : µPA. .
  uPB. . : µPB. . uPC. . : µPC. .
  uPD. . : µPD. .
- CAPACITORS
  uF: µF
- COILS
  uH: µH

The components identified by mark ⚠ or dotted line with mark ⚠ are critical for safety.
Replace only with part number specified.

When indicating parts by reference number, please include the board.

Ref. No.	Part No.	Description			Remark
*	A-2007-731-A	AUDIO BOARD, COMPLETE			
		**********			
		< CAPACITOR >			
C301	1-162-289-31	CERAMIC	390PF	10%	50V
C302	1-126-968-11	ELECT	100uF	20%	6.3V
C303	1-162-282-31	CERAMIC	100PF	10%	50V
C304	1-130-483-00	MYLAR	0.01uF	5%	50V
C305	1-107-715-11	ELECT	22uF	20%	16V
C311	1-162-289-31	CERAMIC	390PF	10%	50V
C313	1-162-282-31	CERAMIC	100PF	10%	50V
C314	1-130-487-00	MYLAR	0.022uF	5%	50V
C315	1-126-233-11	ELECT	22uF	20%	50V
C331	1-137-427-11	FILM	120PF	5%	50V
C332	1-162-288-31	CERAMIC	330PF	10%	50V
C333	1-162-209-31	CERAMIC	27PF	5%	50V
C401	1-162-289-31	CERAMIC	390PF	10%	50V
C402	1-126-968-11	ELECT	100uF	20%	6.3V
C403	1-162-282-31	CERAMIC	100PF	10%	50V
C404	1-130-483-00	MYLAR	0.01uF	5%	50V
C405	1-107-715-11	ELECT	22uF	20%	16V
C411	1-162-289-31	CERAMIC	390PF	10%	50V
C413	1-162-282-31	CERAMIC	100PF	10%	50V
C414	1-130-487-00	MYLAR	0.022uF	5%	50V
C415	1-126-233-11	ELECT	22uF	20%	50V
C431	1-137-427-11	FILM	120PF	5%	50V
C432	1-162-288-31	CERAMIC	330PF	10%	50V
C433	1-162-209-31	CERAMIC	27PF	5%	50V
C601	1-104-396-11	ELECT	10uF	20%	16V
C602	1-104-396-11	ELECT	10uF	20%	16V
C611	1-104-396-11	ELECT	10uF	20%	16V
C612	1-104-396-11	ELECT	10uF	20%	16V
C621	1-137-150-11	FILM	0.01uF	5%	100V
C622	1-126-961-11	ELECT	2.2uF	20%	50V
C623	1-136-155-00	FILM	0.015uF	5%	50V
C624	1-130-481-00	MYLAR	0.0068uF	5%	50V
C625	1-130-481-00	MYLAR	0.0068uF	5%	50V
C627	1-124-903-11	ELECT	1uF	20%	50V
C628	1-136-153-00	FILM	0.01uF	5%	50V
C642	1-104-664-11	ELECT	47uF	20%	16V

Ref. No.	Part No.	Description			Remark
		< CONNECTOR >			
CN601	1-568-834-11	SOCKET, CONNECTOR 15P			
		< IC >			
IC601	8-759-111-44	IC uPC4570C-1			
IC602	8-759-143-54	IC uPC1330HA			
IC611	8-759-111-44	IC uPC4570C-1			
		< COIL >			
L331	1-410-780-11	INDUCTOR 27mH			
L431	1-410-780-11	INDUCTOR 27mH			
L601	1-414-193-41	INDUCTOR 220uH			
L602	1-414-193-41	INDUCTOR 220uH			
		< TRANSISTOR >			
Q621	8-729-142-46	TRANSISTOR 2SC2001-LK			
Q622	8-729-142-46	TRANSISTOR 2SC2001-LK			
Q623	8-729-801-93	TRANSISTOR 2SD1387			
		< RESISTOR >			
R301	1-247-881-00	CARBON	120K	5%	1/4W
R302	1-249-409-11	CARBON	220	5%	1/4W
R303	1-249-433-11	CARBON	22K	5%	1/4W
R304	1-247-889-00	CARBON	270K	5%	1/4W
R305	1-247-858-11	CARBON	13K	5%	1/4W
R311	1-247-881-00	CARBON	120K	5%	1/4W
R312	1-247-807-31	CARBON	100	5%	1/4W
R314	1-247-882-11	CARBON	130K	5%	1/4W
R315	1-247-850-11	CARBON	6.2K	5%	1/4W
R331	1-249-430-11	CARBON	12K	5%	1/4W
R401	1-247-881-00	CARBON	120K	5%	1/4W
R402	1-249-409-11	CARBON	220	5%	1/4W
R403	1-249-433-11	CARBON	22K	5%	1/4W
R404	1-247-889-00	CARBON	270K	5%	1/4W
R405	1-247-858-11	CARBON	13K	5%	1/4W
R411	1-247-881-00	CARBON	120K	5%	1/4W
R412	1-247-807-31	CARBON	100	5%	1/4W
R414	1-247-882-11	CARBON	130K	5%	1/4W
R415	1-247-850-11	CARBON	6.2K	5%	1/4W
R431	1-249-430-11	CARBON	12K	5%	1/4W
R601	1-249-409-11	CARBON	220	5%	1/4W

AUDIO BD

Ref. No.	Part No.	Description			Remark
R602	1-249-409-11	CARBON	220	5%	1/4W
R608	1-249-409-11	CARBON	220	5%	1/4W
R609	1-249-433-11	CARBON	22K	5%	1/4W
R611	1-249-409-11	CARBON	220	5%	1/4W
R612	1-249-409-11	CARBON	220	5%	1/4W
⚠R621	1-212-851-00	FUSIBLE	5.6	5%	1/4W F
⚠R622	1-212-851-00	FUSIBLE	5.6	5%	1/4W F
R623	1-249-432-11	CARBON	18K	5%	1/4W
R624	1-249-432-11	CARBON	18K	5%	1/4W
R625	1-249-429-11	CARBON	10K	5%	1/4W
		< VARIABLE RESISTOR >			
RV301	1-238-598-11	RES, ADJ, CARBON 2.2K			
RV311	1-238-598-11	RES, ADJ, CARBON 2.2K			
RV341	1-241-768-11	RES, ADJ, CARBON 220K			
RV401	1-238-598-11	RES, ADJ, CARBON 2.2K			
RV411	1-238-598-11	RES, ADJ, CARBON 2.2K			
RV441	1-241-768-11	RES, ADJ, CARBON 220K			
		< TRANSFORMER >			
T621	1-423-980-11	TRANSFORMER, BIAS OSCILLATION			
**********					
	A-4724-640-A	BD BOARD, COMPLETE			
		**********			
		< CAPACITOR >			
C101	1-163-005-11	CERAMIC CHIP	470PF	10%	50V
C102	1-163-038-00	CERAMIC CHIP	0.1uF		25V
C103	1-163-005-11	CERAMIC CHIP	470PF	10%	50V
C105	1-126-206-11	ELECT CHIP	100uF	20%	6.3V
C106	1-164-346-11	CERAMIC CHIP	1uF		16V
C107	1-164-346-11	CERAMIC CHIP	1uF		16V
C108	1-164-004-11	CERAMIC CHIP	0.1uF	10%	25V
C109	1-163-145-00	CERAMIC CHIP	0.0015uF	5%	50V
C110	1-164-161-11	CERAMIC CHIP	0.0022uF	10%	100V
C111	1-163-251-11	CERAMIC CHIP	100PF	5%	50V
C112	1-163-038-00	CERAMIC CHIP	0.1uF		25V
C113	1-163-038-00	CERAMIC CHIP	0.1uF		25V
C115	1-126-607-11	ELECT CHIP	47uF	20%	4V
C116	1-126-607-11	ELECT CHIP	47uF	20%	4V
C117	1-126-209-11	ELECT CHIP	100uF	20%	4V
C118	1-163-275-11	CERAMIC CHIP	0.001uF	5%	50V
C119	1-163-110-00	CERAMIC CHIP	51PF	5%	50V
C120	1-109-982-11	CERAMIC CHIP	1uF	10%	10V
C121	1-109-982-11	CERAMIC CHIP	1uF	10%	10V
C122	1-163-009-11	CERAMIC CHIP	0.001uF	10%	50V
C123	1-163-021-11	CERAMIC CHIP	0.01uF	10%	50V
C124	1-164-005-11	CERAMIC CHIP	0.47uF		25V
C126	1-124-779-00	ELECT CHIP	10uF	20%	16V
C130	1-163-038-00	CERAMIC CHIP	0.1uF		25V
C140	1-163-038-00	CERAMIC CHIP	0.1uF		25V
C141	1-163-038-00	CERAMIC CHIP	0.1uF		25V
C151	1-163-235-11	CERAMIC CHIP	22PF	5%	50V
C153	1-163-038-00	CERAMIC CHIP	0.1uF		25V
C154	1-110-501-11	CERAMIC CHIP	0.33uF	10%	16V
C156	1-163-235-11	CERAMIC CHIP	22PF	5%	50V

Ref. No.	Part No.	Description			Remark
C157	1-163-009-11	CERAMIC CHIP	0.001uF	10%	50V
C159	1-163-017-00	CERAMIC CHIP	0.0047uF	5%	50V
C161	1-163-038-00	CERAMIC CHIP	0.1uF		25V
C162	1-128-065-11	ELECT CHIP	68uF	20%	10V
C170	1-163-038-00	CERAMIC CHIP	0.1uF		25V
C171	1-163-038-00	CERAMIC CHIP	0.1uF		25V
		< CONNECTOR >			
CN101	1-770-706-11	CONNECTOR, FFC/FPC 23P			
CN102	1-777-937-11	CONNECTOR, FFC/FPC 16P			
		< IC >			
IC101	8-752-397-42	IC CXD3008Q			
IC102	8-759-549-28	IC BA5974FP-E2			
IC103	8-752-085-51	IC CXA2568M-T6			
IC104	8-759-398-25	IC TC7SH04F (TE85L)			
		< COIL >			
L101	1-414-234-22	INDUCTOR CHIP	0uH		
L102	1-410-377-31	INDUCTOR CHIP	4.7uH		
		< TRANSISTOR >			
Q101	8-729-049-31	TRANSISTOR 2SB710-RTX			
		< RESISTOR >			
R101	1-216-077-00	METAL CHIP	15K	5%	1/10W
R102	1-216-097-91	RES, CHIP	100K	5%	1/10W
R103	1-216-077-00	METAL CHIP	15K	5%	1/10W
R104	1-216-085-00	METAL CHIP	33K	5%	1/10W
R105	1-216-073-00	METAL CHIP	10K	5%	1/10W
R106	1-216-049-11	RES, CHIP	1K	5%	1/10W
R107	1-216-073-00	METAL CHIP	10K	5%	1/10W
R108	1-216-061-00	METAL CHIP	3.3K	5%	1/10W
R109	1-216-121-00	RES, CHIP	1M	5%	1/10W
R110	1-216-295-00	SHORT	0		
R112	1-216-049-11	RES, CHIP	1K	5%	1/10W
R123	1-216-073-00	METAL CHIP	10K	5%	1/10W
R124	1-216-097-91	RES, CHIP	100K	5%	1/10W
R125	1-216-037-00	METAL CHIP	330	5%	1/10W
R126	1-216-037-00	METAL CHIP	330	5%	1/10W
R127	1-216-037-00	METAL CHIP	330	5%	1/10W
R131	1-216-037-00	METAL CHIP	330	5%	1/10W
R135	1-216-295-00	SHORT	0		
R136	1-216-295-00	SHORT	0		
R137	1-216-295-00	SHORT	0		
R138	1-216-295-00	SHORT	0		
R143	1-216-103-00	METAL CHIP	180K	5%	1/10W
R144	1-216-103-00	METAL CHIP	180K	5%	1/10W
R145	1-216-121-00	RES, CHIP	1M	5%	1/10W
R146	1-216-121-00	RES, CHIP	1M	5%	1/10W
R147	1-216-041-00	METAL CHIP	470	5%	1/10W
R148	1-216-001-00	METAL CHIP	10	5%	1/10W
R149	1-216-003-11	RES, CHIP	12	5%	1/10W
R150	1-216-073-00	METAL CHIP	10K	5%	1/10W
R154	1-216-025-00	RES, CHIP	100	5%	1/10W
R155	1-216-025-00	RES, CHIP	100	5%	1/10W
R156	1-216-025-00	RES, CHIP	100	5%	1/10W

The components identified by mark ⚠ or dotted line with mark ⚠ are critical for safety.
Replace only with part number specified.

Ref. No.	Part No.	Description			Remark
R157	1-216-025-00	RES, CHIP	100	5%	1/10W
R158	1-216-111-00	METAL CHIP	390K	5%	1/10W
R159	1-216-089-00	RES, CHIP	47K	5%	1/10W
R161	1-216-308-00	METAL CHIP	4.7	5%	1/10W
R162	1-216-101-00	METAL CHIP	150K	5%	1/10W
R171	1-216-025-00	RES, CHIP	100	5%	1/10W
R172	1-216-025-00	RES, CHIP	100	5%	1/10W
R173	1-216-025-00	RES, CHIP	100	5%	1/10W
R175	1-216-025-00	RES, CHIP	100	5%	1/10W
R203	1-216-025-00	RES, CHIP	100	5%	1/10W
R204	1-216-025-00	RES, CHIP	100	5%	1/10W
R205	1-216-025-00	RES, CHIP	100	5%	1/10W
R206	1-216-295-00	SHORT	0		
		< SWITCH >			
S101	1-572-085-11	SWITCH, LEAF (LIMIT)			
**********					
	A-4419-984-A	CD SW BOARD, COMPLETE			
		**********			
		< LED >			
D751	8-719-056-13	LED SML79423C-TP15 (DISC 1)			
D752	8-719-056-13	LED SML79423C-TP15 (DISC 2)			
D753	8-719-056-13	LED SML79423C-TP15 (DISC 3)			
D754	8-719-063-93	LED SLR325VC-N-T32 (**I**/⏻)			
		< RESISTOR >			
R751	1-249-417-11	CARBON	1K	5%	1/4W
R752	1-249-418-11	CARBON	1.2K	5%	1/4W
R753	1-249-420-11	CARBON	1.8K	5%	1/4W
R754	1-249-422-11	CARBON	2.7K	5%	1/4W
R755	1-247-843-11	CARBON	3.3K	5%	1/4W
R756	1-249-425-11	CARBON	4.7K	5%	1/4W
R757	1-249-427-11	CARBON	6.8K	5%	1/4W
R758	1-247-804-11	CARBON	75	5%	1/4W
R759	1-249-407-11	CARBON	150	5%	1/4W
R760	1-247-804-11	CARBON	75	5%	1/4W
R761	1-249-407-11	CARBON	150	5%	1/4W
R762	1-247-804-11	CARBON	75	5%	1/4W
R763	1-249-407-11	CARBON	150	5%	1/4W
R764	1-249-414-11	CARBON	560	5%	1/4W
		< SWITCH >			
S751	1-762-875-21	SWITCH, KEYBOARD (**I**/⏻)			
S752	1-762-875-21	SWITCH, KEYBOARD ((STANDBY) POWER SAVE DEMO)			
S753	1-762-875-21	SWITCH, KEYBOARD (DISC 1)			
S754	1-762-875-21	SWITCH, KEYBOARD (DISC 2)			
S755	1-762-875-21	SWITCH, KEYBOARD (DISC 3)			
S756	1-762-875-21	SWITCH, KEYBOARD (DISC SKIP EX-CHANGE)			
S757	1-762-875-21	SWITCH, KEYBOARD (⏏)			
**********					
*	1-658-575-11	CONNECTOR BOARD			
		**********			
		< CONNECTOR >			
* CN701	1-568-946-11	PIN, CONNECTOR 8P			
CN702	1-785-550-11	CONNECTOR, FFC/FPC 8P			
		< TRANSISTOR >			
Q701	8-729-900-80	TRANSISTOR	BA1A4M-TP		
		< RESISTOR >			
R703	1-249-435-11	CARBON	33K	5%	1/4W
R704	1-249-429-11	CARBON	10K	5%	1/4W
R705	1-249-417-11	CARBON	1K	5%	1/4W
**********					
*	A-2007-732-A	LEAF SW BOARD, COMPLETE			
		**********			
		< CAPACITOR >			
C1001	1-107-716-11	ELECT	33uF	20%	10V
		< CONNECTOR >			
CN1001	1-568-860-11	SOCKET, CONNECTOR 17P			
		< DIODE >			
D1001	8-719-911-19	DIODE 1SS119			
D1002	8-719-911-19	DIODE 1SS119			
		< CONNECTOR >			
* DM1001	1-784-581-11	HOLDER, CABLE (2.5MM PITCH) 4P			
		< PHOTO INTERRUPTER >			
IC1001	8-749-014-38	PHOTO INTERRUPTER SG-264			
IC1002	8-749-014-38	PHOTO INTERRUPTER SG-264			
		< TRANSISTOR >			
Q1001	8-729-029-56	TRANSISTOR DTA144ESA			
		< RESISTOR >			
R907	1-247-879-11	CARBON	100K	5%	1/4W
R1001	1-249-409-11	CARBON	220	5%	1/4W
R1002	1-249-409-11	CARBON	220	5%	1/4W
R1003	1-249-414-11	CARBON	560	5%	1/4W
R1004	1-247-834-11	CARBON	1.3K	5%	1/4W
R1005	1-247-818-11	CARBON	300	5%	1/4W
R1006	1-247-864-11	CARBON	24K	5%	1/4W
R1007	1-247-856-00	CARBON	11K	5%	1/4W
R1008	1-249-417-11	CARBON	1K	5%	1/4W
		< VARIABLE RESISTOR >			
RV1001	1-241-785-11	RES, ADJ, CARBON 10K			
RV1002	1-241-785-11	RES, ADJ, CARBON 10K			
		< SWITCH >			
S1001	1-570-953-11	SWITCH, PUSH (1 KEY) (DECK A PLAY)			
S1002	1-570-953-11	SWITCH, PUSH (1 KEY) (DECK B PLAY)			
S1003	1-771-333-11	SWITCH, LEAF (DECK A HALF)			
S1004	1-771-205-11	SWITCH, LEAF (DECK A 120/70)			
S1005	1-771-205-11	SWITCH, LEAF (DECK A REC)			
S1006	1-771-333-11	SWITCH, LEAF (DECK B HALF)			

LEAF SW | MAIN

Ref. No.	Part No.	Description			Remark
S1008	1-771-205-11	SWITCH, LEAF (DECK B 120/70)			
S1009	1-771-205-11	SWITCH, LEAF (DECK B REC)			
**********					
	A-4419-156-A	MAIN BOARD, COMPLETE (VX5A: E, MY, SP, HK, TW)			
	A-4419-164-A	MAIN BOARD, COMPLETE (VX7A: E, MY, SP)			
	A-4419-661-A	MAIN BOARD, COMPLETE (VX5A: EA)			
	A-4419-663-A	MAIN BOARD, COMPLETE (VX7A: EA)			
	A-4426-090-A	MAIN BOARD, COMPLETE (VX5AJ: E)			
	A-4426-098-A	MAIN BOARD, COMPLETE (VX5AJ: JE)			
	A-4426-100-A	MAIN BOARD, COMPLETE (VX5AJ: EA)			
	A-4426-135-A	MAIN BOARD, COMPLETE (VX5A: IA)			
	A-4426-143-A	MAIN BOARD, COMPLETE (VX7A: IA)			
	A-4426-160-A	MAIN BOARD, COMPLETE (VX5A: TH)			
	A-4426-167-A	MAIN BOARD, COMPLETE (VX7A: TH)			
		**********			
	7-685-646-79	SCREW +BVTP 3X8 TYPE2 N-S			
		< CAPACITOR >			
C104	1-164-159-11	CERAMIC	0.1uF		50V
C111	1-137-195-11	FILM	0.56uF	5%	50V
C112	1-136-158-00	FILM	0.027uF	5%	50V
C113	1-136-167-00	FILM	0.15uF	5%	50V (VX7A)
C114	1-130-480-00	MYLAR	0.0056uF	5%	50V (VX7A)
C115	1-136-159-00	FILM	0.033uF	5%	50V
C116	1-130-473-00	MYLAR	0.0015uF	5%	50V
C117	1-136-153-00	FILM	0.01uF	5%	50V (VX7A)
C118	1-162-288-31	CERAMIC	330PF	10%	50V (VX7A)
C119	1-130-479-00	MYLAR	0.0047uF	5%	50V
C120	1-130-477-00	MYLAR	0.0033uF	5%	50V
C121	1-126-964-11	ELECT	10uF	20%	50V
C122	1-162-291-31	CERAMIC	560PF	10%	50V
C123	1-136-169-00	FILM	0.22uF	5%	50V
C124	1-136-169-00	FILM	0.22uF	5%	50V
C125	1-126-964-11	ELECT	10uF	20%	50V
C131	1-104-664-11	ELECT	47uF	20%	16V
C132	1-104-664-11	ELECT	47uF	20%	16V
C135	1-126-964-11	ELECT	10uF	20%	50V
C141	1-126-959-11	ELECT	0.47uF	20%	50V
C161	1-137-195-11	FILM	0.56uF	5%	50V
C162	1-136-158-00	FILM	0.027uF	5%	50V
C163	1-136-167-00	FILM	0.15uF	5%	50V (VX7A)
C164	1-130-480-00	MYLAR	0.0056uF	5%	50V (VX7A)
C165	1-136-159-00	FILM	0.033uF	5%	50V
C166	1-130-473-00	MYLAR	0.0015uF	5%	50V
C167	1-136-153-00	FILM	0.01uF	5%	50V (VX7A)
C168	1-162-288-31	CERAMIC	330PF	10%	50V (VX7A)
C169	1-130-479-00	MYLAR	0.0047uF	5%	50V
C170	1-130-477-00	MYLAR	0.0033uF	5%	50V
C171	1-126-964-11	ELECT	10uF	20%	50V
C172	1-162-291-31	CERAMIC	560PF	10%	50V
C173	1-136-169-00	FILM	0.22uF	5%	50V
C174	1-136-169-00	FILM	0.22uF	5%	50V
C175	1-126-964-11	ELECT	10uF	20%	50V
C176	1-136-495-11	FILM	0.068uF	5%	50V
C177	1-136-153-00	FILM	0.01uF	5%	50V
C193	1-126-964-11	ELECT	10uF	20%	50V
C197	1-164-159-11	CERAMIC	0.1uF		50V
C301	1-126-960-11	ELECT	1uF	20%	50V
C302	1-130-479-00	MYLAR	0.0047uF	5%	50V
C303	1-136-165-00	FILM	0.1uF	5%	50V
C304	1-136-165-00	FILM	0.1uF	5%	50V
C305	1-126-964-11	ELECT	10uF	20%	50V
C306	1-126-960-11	ELECT	1uF	20%	50V
C307	1-126-959-11	ELECT	0.47uF	20%	50V
C308	1-126-964-11	ELECT	10uF	20%	50V
C309	1-137-194-81	FILM	0.47uF	5%	50V
C310	1-162-290-31	CERAMIC	470PF	10%	50V
C311	1-126-964-11	ELECT	10uF	20%	50V
C312	1-126-959-11	ELECT	0.47uF	20%	50V
C313	1-162-294-31	CERAMIC	0.001uF	10%	50V
C314	1-126-964-11	ELECT	10uF	20%	50V
C315	1-126-963-11	ELECT	4.7uF	20%	50V
C316	1-104-665-11	ELECT	100uF	20%	10V
C317	1-104-665-11	ELECT	100uF	20%	10V
C320	1-162-290-31	CERAMIC	470PF	10%	50V
C333	1-162-600-11	CERAMIC	0.0047uF	30%	16V
C334	1-162-600-11	CERAMIC	0.0047uF	30%	16V
C351	1-126-960-11	ELECT	1uF	20%	50V
C352	1-130-479-00	MYLAR	0.0047uF	5%	50V
C353	1-136-165-00	FILM	0.1uF	5%	50V
C354	1-136-165-00	FILM	0.1uF	5%	50V
C355	1-126-964-11	ELECT	10uF	20%	50V
C356	1-126-960-11	ELECT	1uF	20%	50V
C357	1-126-959-11	ELECT	0.47uF	20%	50V
C358	1-126-964-11	ELECT	10uF	20%	50V
C359	1-137-194-81	FILM	0.47uF	5%	50V
C382	1-104-665-11	ELECT	100uF	20%	10V
C390	1-104-656-11	ELECT	2200uF	20%	6.3V
C391	1-161-494-00	CERAMIC	0.022uF	25V	
C392	1-126-916-11	ELECT	1000uF	20%	6.3V
C393	1-161-494-00	CERAMIC	0.022uF	25V	
C394	1-126-925-11	ELECT	470uF	20%	10V
C396	1-126-961-11	ELECT	2.2uF	20%	50V
C397	1-126-961-11	ELECT	2.2uF	20%	50V
C410	1-126-963-11	ELECT	4.7uF	20%	50V
C411	1-162-306-11	CERAMIC	0.01uF	30%	16V
C412	1-107-717-11	ELECT	47uF	20%	50V
C432	1-104-665-11	ELECT	100uF	20%	10V
C433	1-126-961-11	ELECT	2.2uF	20%	50V
C437	1-126-968-11	ELECT	100uF	20%	50V
C501	1-126-964-11	ELECT	10uF	20%	50V
C502	1-164-159-11	CERAMIC	0.1uF		50V
C503	1-136-165-00	FILM	0.1uF	5%	50V
C504	1-126-926-11	ELECT	1000uF	20%	10V
C508	1-109-889-11	ELECT	1uF	20%	50V
C610	1-102-953-00	CERAMIC	18PF	5%	50V
C611	1-102-951-00	CERAMIC	15PF	5%	50V

Ref. No.	Part No.	Description			Remark
C614	1-162-306-11	CERAMIC	0.01uF	30%	16V
C616	1-104-665-11	ELECT	100uF	20%	10V
C662	1-162-306-11	CERAMIC	0.01uF	30%	16V
C664	1-104-665-11	ELECT	100uF	20%	10V
C698	1-162-306-11	CERAMIC	0.01uF	30%	16V
C699	1-104-665-11	ELECT	100uF	20%	10V
C801	1-126-963-11	ELECT	4.7uF	20%	50V
C802	1-162-290-31	CERAMIC	470PF	10%	50V
C803	1-162-282-31	CERAMIC	100PF	10%	50V
C804	1-104-665-11	ELECT	100uF	20%	10V
C807	1-136-495-11	FILM	0.068uF	5%	50V
C808	1-136-495-11	FILM	0.068uF	5%	50V
C809	1-128-560-11	ELECT	22uF	20%	100V
C810	1-128-578-11	ELECT	1uF	20%	100V
C811	1-162-306-11	CERAMIC	0.01uF	30%	16V
C812	1-162-306-11	CERAMIC	0.01uF	30%	16V
C841	1-127-751-11	ELECT	3300uF	20%	50V
C842	1-127-754-11	ELECT	3300uF	20%	80V
C843	1-136-165-00	FILM	0.1uF	5%	50V
C844	1-130-777-00	FILM	0.1uF	10%	100V
C851	1-126-963-11	ELECT	4.7uF	20%	50V
C852	1-162-290-31	CERAMIC	470PF	10%	50V
C853	1-162-282-31	CERAMIC	100PF	10%	50V
C854	1-104-665-11	ELECT	100uF	20%	10V
C857	1-136-495-11	FILM	0.068uF	5%	50V
C858	1-136-495-11	FILM	0.068uF	5%	50V
C859	1-128-560-11	ELECT	22uF	20%	100V
C881	1-126-967-11	ELECT	47uF	20%	50V
C891	1-127-751-11	ELECT	3300uF	20%	50V
C892	1-127-754-11	ELECT	3300uF	20%	80V
C893	1-136-165-00	FILM	0.1uF	5%	50V
C894	1-130-777-00	FILM	0.1uF	10%	100V
C901	1-136-165-00	FILM	0.1uF	5%	50V
C902	1-126-939-11	ELECT	10000uF	20%	16V
C903	1-126-933-11	ELECT	100uF	20%	16V
C904	1-104-664-11	ELECT	47uF	20%	16V
C905	1-104-665-11	ELECT	100uF	20%	10V
C906	1-136-165-00	FILM	0.1uF	5%	50V
C907	1-128-548-11	ELECT	4700uF	20%	25V
C909	1-126-964-11	ELECT	10uF	20%	50V
C910	1-104-665-11	ELECT	100uF	20%	10V
C911	1-126-964-11	ELECT	10uF	20%	50V
C912	1-126-926-11	ELECT	1000uF	20%	10V
C913	1-126-964-11	ELECT	10uF	20%	50V
C914	1-126-767-11	ELECT	1000uF	20%	16V
C915	1-104-664-11	ELECT	47uF	20%	16V
C916	1-162-306-11	CERAMIC	0.01uF	30%	16V
C917	1-126-933-11	ELECT	100uF	20%	16V
C921	1-104-656-11	ELECT	2200uF	20%	6.3V
C922	1-126-964-11	ELECT	10uF	20%	50V
C923	1-126-926-11	ELECT	1000uF	20%	10V
C951	1-136-165-00	FILM	0.1uF	5%	50V
C952	1-126-768-11	ELECT	2200uF	20%	16V
C953	1-126-933-11	ELECT	100uF	20%	16V
C955	1-104-665-11	ELECT	100uF	20%	10V
C956	1-136-165-00	FILM	0.1uF	5%	50V

Ref. No.	Part No.	Description	Remark
		< CONNECTOR >	
CN303	1-784-776-11	CONNECTOR, FFC 15P	
CN304	1-784-778-11	CONNECTOR, FFC 17P	
CN371	1-784-774-11	CONNECTOR, FFC 13P (VX5A: TH/VX7A: TH)	
CN371	1-784-776-11	CONNECTOR, FFC 15P	(EXCEPT VX5A: TH/VX7A: TH)
CN391	1-750-745-11	CONNECTOR, FFC/FPC 13P	
CN392	1-785-334-11	PIN, CONNECTOR (LIGHT ANGLE) 8P	
CN393	1-785-335-11	PIN, CONNECTOR (LIGHT ANGLE) 9P	
* CN403	1-564-518-11	PLUG, CONNECTOR 3P	
CN501	1-784-784-11	CONNECTOR, FFC 23P	
		< DIODE >	
D141	8-719-911-19	DIODE 1SS133T-72	
D191	8-719-911-19	DIODE 1SS133T-72	
D331	8-719-911-19	DIODE 1SS133T-72	
D333	8-719-911-19	DIODE 1SS133T-72	
D334	8-719-911-19	DIODE 1SS133T-72	
D335	8-719-911-19	DIODE 1SS133T-72	
D401	8-719-911-19	DIODE 1SS133T-72	
D403	8-719-911-19	DIODE 1SS133T-72	
D405	8-719-024-99	DIODE 11ES2-NTA2B	
D406	8-719-024-99	DIODE 11ES2-NTA2B	
D407	8-719-024-99	DIODE 11ES2-NTA2B	
D411	8-719-911-19	DIODE 1SS133T-72	
D501	8-719-024-99	DIODE 11ES2-NTA2B	
D502	8-719-911-19	DIODE 1SS133T-72	
D503	8-719-911-19	DIODE 1SS133T-72	
D504	8-719-911-19	DIODE 1SS133T-72	
D505	8-719-911-19	DIODE 1SS133T-72	
D506	8-719-911-19	DIODE 1SS133T-72	
D507	8-719-024-99	DIODE 11ES2-NTA2B	
D509	8-719-911-19	DIODE 1SS133T-72	
D607	8-719-911-19	DIODE 1SS133T-72	
D644	8-719-911-19	DIODE 1SS133T-72	
D801	8-719-911-19	DIODE 1SS133T-72	
D802	8-719-118-97	DIODE RD16F-T7B2	
D803	8-719-991-19	DIODE 1SS133T-72	
D831	8-719-302-38	DIODE RBV-602-01	
D832	8-719-302-38	DIODE RBV-602-01	
D851	8-719-911-19	DIODE 1SS133T-72	
D852	8-719-160-64	DIODE RD16F-T7B1	
D881	8-719-911-19	DIODE 1SS133T-72	
D901	8-719-975-85	DIODE 21DQ04N-TA2	
D902	8-719-975-85	DIODE 21DQ04N-TA2	
D903	8-719-975-85	DIODE 21DQ04N-TA2	
D904	8-719-975-85	DIODE 21DQ04N-TA2	
D905	8-719-933-36	DIODE HZS6B1LTA	
D906	8-719-911-19	DIODE 1SS133T-72	
D907	8-719-024-99	DIODE 11ES2-NTA2B	
D908	8-719-024-99	DIODE 11ES2-NTA2B	
D909	8-719-024-99	DIODE 11ES2-NTA2B	
D910	8-719-024-99	DIODE 11ES2-NTA2B	
D915	8-719-935-69	DIODE HZS11B1LTA	
D917	8-719-911-19	DIODE 1SS133T-72	
D918	8-719-024-99	DIODE 11ES2-NTA2B	
D919	8-719-911-19	DIODE 1SS133T-72	
D921	8-719-911-19	DIODE 1SS133T-72	

MAIN

Ref. No.	Part No.	Description	Remark
D922	8-719-911-19	DIODE 1SS133T-72	
D923	8-719-911-19	DIODE 1SS133T-72	
D924	8-719-024-99	DIODE 11ES2-NTA2B	
D925	8-719-024-99	DIODE 11ES2-NTA2B	
		< FERRITE BEAD >	
FB391	1-412-473-21	FERRITE 0uH	
FB392	1-412-473-21	FERRITE 0uH	
		< IC >	
IC101	8-759-571-55	IC M62493FP-A	
IC301	8-759-495-26	IC HA12215F	
IC381	8-749-923-04	IC TOTX178A (CD DIGITAL OUT OPTICAL)	
IC501	8-759-588-91	IC M30622MA-A09FP	
IC502	8-759-635-63	IC M51943BSL-TP	
IC801	8-749-015-37	IC STK411-240E	
IC901	8-759-604-86	IC M5F7807L	
IC902	8-759-231-53	IC M5F7805L	
IC903	8-759-088-08	IC uPC7812AHF	
IC904	8-759-231-53	IC M5F7805L	
		< JACK >	
J101	1-774-411-11	JACK, PIN 6P (VIDEO (AUDIO) IN, MD IN/OUT)	
J191	1-774-785-11	JACK, PIN 1P (SUPER WOOFER)	
		< COIL >	
L381	1-410-521-11	INDUCTOR 100uH	
L392	1-410-521-11	INDUCTOR 100uH	
L501	1-410-509-11	INDUCTOR 10uH	
		< TRANSISTOR >	
Q111	8-729-119-78	TRANSISTOR 2SC2785TP-HFE	
Q112	8-729-119-78	TRANSISTOR 2SC2785TP-HFE	
Q113	8-729-141-30	TRANSISTOR 2SC3623ATP-LK	
Q161	8-729-119-78	TRANSISTOR 2SC2785TP-HFE	
Q162	8-729-119-78	TRANSISTOR 2SC2785TP-HFE	
Q163	8-729-141-30	TRANSISTOR 2SC3623ATP-LK	
Q191	8-729-141-30	TRANSISTOR 2SC3623ATP-LK	
Q192	8-729-900-63	TRANSISTOR BN1F4M-TP	
Q201	8-729-900-36	TRANSISTOR BA1F4M-TP	
Q251	8-729-900-36	TRANSISTOR BA1F4M-TP	
Q331	8-729-118-00	TRANSISTOR 2SB1116-TP-LK	
Q332	8-729-900-80	TRANSISTOR BA1A4M-TP	
Q333	8-729-118-00	TRANSISTOR 2SB1116-TP-LK	
Q334	8-729-900-80	TRANSISTOR BA1A4M-TP	
Q335	8-729-900-80	TRANSISTOR BA1A4M-TP	
Q336	8-729-116-59	TRANSISTOR 2SB1068TP	
Q337	8-729-045-21	TRANSISTOR 2SD1513TP-LK	
Q338	8-729-422-57	TRANSISTOR BN1A4M-TP	
Q339	8-729-900-80	TRANSISTOR BA1A4M-TP	
Q340	8-729-116-59	TRANSISTOR 2SB1068TP	
Q341	8-729-045-21	TRANSISTOR 2SD1513TP-LK	
Q342	8-729-422-57	TRANSISTOR BN1A4M-TP	
Q343	8-729-900-80	TRANSISTOR BA1A4M-TP	
Q401	8-729-119-77	TRANSISTOR 2SA1175TP-FEK	
Q402	8-729-111-29	TRANSISTOR 2SD1616-TP-LK	
Q411	8-729-141-30	TRANSISTOR 2SC3623ATP-LK	

Ref. No.	Part No.	Description	Remark
Q412	8-729-900-63	TRANSISTOR BN1F4M-TP	
Q431	8-729-140-84	TRANSISTOR 2SC1841TP-PAFAEA	
Q432	8-729-140-82	TRANSISTOR 2SA988TP-PAFAEA	
Q433	8-729-140-84	TRANSISTOR 2SC1841TP-PAFAEA	
Q434	8-729-140-84	TRANSISTOR 2SC1841TP-PAFAEA	
Q435	8-729-900-36	TRANSISTOR BA1F4M-TP	
Q436	8-729-119-77	TRANSISTOR 2SA1175TP-FEK	
Q437	8-729-119-79	TRANSISTOR 2SC2785TP-FEK	
Q439	8-729-119-79	TRANSISTOR 2SC2785TP-FEK	
Q471	8-729-141-30	TRANSISTOR 2SC3623ATP-LK	
Q501	8-729-119-78	TRANSISTOR 2SC2785TP-HFE	
Q508	8-729-900-63	TRANSISTOR BN1F4M-TP	
Q509	8-729-900-63	TRANSISTOR BN1F4M-TP	
Q801	8-729-140-84	TRANSISTOR 2SC1841TP-PAFAEA	
Q803	8-729-140-82	TRANSISTOR 2SA988TP-PAFAEA	
Q804	8-729-140-84	TRANSISTOR 2SC1841TP-PAFAEA	
Q831	8-729-140-84	TRANSISTOR 2SC1841TP-PAFAEA	
Q832	8-729-119-79	TRANSISTOR 2SC2785TP-FEK	
Q851	8-729-140-84	TRANSISTOR 2SC1841TP-PAFAEA	
Q881	8-729-140-84	TRANSISTOR 2SC1841TP-PAFAEA	
Q901	8-729-209-15	TRANSISTOR 2SD2012	
Q902	8-729-119-78	TRANSISTOR 2SC2785TP-HFE	
Q903	8-729-900-36	TRANSISTOR BA1F4M-TP	
Q904	8-729-900-36	TRANSISTOR BA1F4M-TP	
Q905	8-729-040-20	TRANSISTOR RT1P137L-TP	
Q907	8-729-141-83	TRANSISTOR 2SB1375	
Q908	8-729-900-36	TRANSISTOR BA1F4M-TP	
Q909	8-729-026-68	TRANSISTOR 2SD2525 (TP)	
Q911	8-729-141-83	TRANSISTOR 2SB1375	
Q912	8-729-900-36	TRANSISTOR BA1F4M-TP	
Q913	8-729-119-78	TRANSISTOR 2SC2785TP-HFE	
Q914	8-729-119-77	TRANSISTOR 2SA1175TP-FEK	
Q923	8-729-900-36	TRANSISTOR BA1F4M-TP	
Q951	8-729-141-83	TRANSISTOR 2SB1375	
Q952	8-729-119-77	TRANSISTOR 2SA1175TP-FEK	
		< RESISTOR >	
R101	1-249-417-11	CARBON 1K 5% 1/4W	
R102	1-249-417-11	CARBON 1K 5% 1/4W	
R103	1-249-417-11	CARBON 1K 5% 1/4W	
R111	1-249-429-11	CARBON 10K 5% 1/4W	
R112	1-247-895-00	CARBON 470K 5% 1/4W	
R113	1-247-894-11	CARBON 430K 5% 1/4W	
R114	1-249-415-11	CARBON 680 5% 1/4W	
R115	1-249-433-11	CARBON 22K 5% 1/4W	
R116	1-247-887-00	CARBON 220K 5% 1/4W	
R117	1-249-429-11	CARBON 10K 5% 1/4W	
R118	1-249-437-11	CARBON 47K 5% 1/4W	
R119	1-249-421-11	CARBON 2.2K 5% 1/4W	
R120	1-249-441-11	CARBON 100K 5% 1/4W	
R121	1-249-429-11	CARBON 10K 5% 1/4W	
R124	1-249-433-11	CARBON 22K 5% 1/4W	
R125	1-247-843-11	CARBON 3.3K 5% 1/4W	
R126	1-249-421-11	CARBON 2.2K 5% 1/4W	
R130	1-249-433-11	CARBON 22K 5% 1/4W	
R131	1-247-807-31	CARBON 100 5% 1/4W	
R132	1-247-807-31	CARBON 100 5% 1/4W	

Ref. No.	Part No.	Description			Remark
R133	1-247-807-31	CARBON	100	5%	1/4W
R141	1-249-433-11	CARBON	22K	5%	1/4W
R142	1-249-433-11	CARBON	22K	5%	1/4W
R143	1-249-417-11	CARBON	1K	5%	1/4W
R144	1-249-441-11	CARBON	100K	5%	1/4W
R145	1-247-903-00	CARBON	1M	5%	1/4W
R151	1-249-417-11	CARBON	1K	5%	1/4W
R152	1-249-417-11	CARBON	1K	5%	1/4W
R153	1-249-417-11	CARBON	1K	5%	1/4W
R161	1-249-429-11	CARBON	10K	5%	1/4W
R162	1-247-895-00	CARBON	470K	5%	1/4W
R163	1-247-894-11	CARBON	430K	5%	1/4W
R164	1-249-415-11	CARBON	680	5%	1/4W
R165	1-249-433-11	CARBON	22K	5%	1/4W
R166	1-247-887-00	CARBON	220K	5%	1/4W
R167	1-249-429-11	CARBON	10K	5%	1/4W
R168	1-249-437-11	CARBON	47K	5%	1/4W
R169	1-249-421-11	CARBON	2.2K	5%	1/4W
R170	1-249-441-11	CARBON	100K	5%	1/4W
R171	1-249-429-11	CARBON	10K	5%	1/4W
R178	1-249-421-11	CARBON	2.2K	5%	1/4W
R190	1-249-441-11	CARBON	100K	5%	1/4W
R196	1-249-417-11	CARBON	1K	5%	1/4W
R197	1-249-441-11	CARBON	100K	5%	1/4W
R198	1-249-417-11	CARBON	1K	5%	1/4W
R199	1-249-429-11	CARBON	10K	5%	1/4W
R201	1-247-888-11	CARBON	240K	5%	1/4W
R202	1-247-903-00	CARBON	1M	5%	1/4W
R211	1-249-441-11	CARBON	100K	5%	1/4W
R212	1-249-441-11	CARBON	100K	5%	1/4W
R251	1-247-888-11	CARBON	240K	5%	1/4W
R252	1-247-903-00	CARBON	1M	5%	1/4W
R261	1-249-441-11	CARBON	100K	5%	1/4W
R262	1-249-441-11	CARBON	100K	5%	1/4W
R301	1-249-435-11	CARBON	33K	5%	1/4W
R302	1-249-421-11	CARBON	2.2K	5%	1/4W
R303	1-247-807-31	CARBON	100	5%	1/4W
R304	1-247-807-31	CARBON	100	5%	1/4W
R305	1-249-421-11	CARBON	2.2K	5%	1/4W
R306	1-249-428-11	CARBON	8.2K	5%	1/4W
R307	1-249-428-11	CARBON	8.2K	5%	1/4W
R308	1-249-425-11	CARBON	4.7K	5%	1/4W
R309	1-249-433-11	CARBON	22K	5%	1/4W
R311	1-247-903-00	CARBON	1M	5%	1/4W
R312	1-247-884-11	CARBON	160K	5%	1/4W
R313	1-249-441-11	CARBON	100K	5%	1/4W
R315	1-249-429-11	CARBON	10K	5%	1/4W
R316	1-249-432-11	CARBON	18K	5%	1/4W
R317	1-249-429-11	CARBON	10K	5%	1/4W
R318	1-249-429-11	CARBON	10K	5%	1/4W
R319	1-247-893-11	CARBON	390K	5%	1/4W
R321	1-249-422-11	CARBON	2.7K	5%	1/4W
R322	1-249-428-11	CARBON	8.2K	5%	1/4W
R324	1-247-876-11	CARBON	75K	5%	1/4W
R325	1-247-876-11	CARBON	75K	5%	1/4W
R326	1-249-437-11	CARBON	47K	5%	1/4W
R327	1-249-437-11	CARBON	47K	5%	1/4W
R328	1-249-437-11	CARBON	47K	5%	1/4W

Ref. No.	Part No.	Description			Remark
R329	1-249-417-11	CARBON	1K	5%	1/4W
R330	1-249-425-11	CARBON	4.7K	5%	1/4W
R331	1-249-425-11	CARBON	4.7K	5%	1/4W
R332	1-249-415-11	CARBON	680	5%	1/4W
R333	1-249-421-11	CARBON	2.2K	5%	1/4W
R334	1-249-415-11	CARBON	680	5%	1/4W
R335	1-249-421-11	CARBON	2.2K	5%	1/4W
R336	1-249-437-11	CARBON	47K	5%	1/4W
R337	1-249-417-11	CARBON	1K	5%	1/4W
R338	1-249-411-11	CARBON	330	5%	1/4W
R339	1-249-437-11	CARBON	47K	5%	1/4W
R340	1-249-437-11	CARBON	47K	5%	1/4W
R341	1-249-411-11	CARBON	330	5%	1/4W
R342	1-249-437-11	CARBON	47K	5%	1/4W
R343	1-249-417-11	CARBON	1K	5%	1/4W
R351	1-249-435-11	CARBON	33K	5%	1/4W
R352	1-249-421-11	CARBON	2.2K	5%	1/4W
R353	1-247-807-31	CARBON	100	5%	1/4W
R354	1-247-807-31	CARBON	100	5%	1/4W
R355	1-249-421-11	CARBON	2.2K	5%	1/4W
R356	1-249-428-11	CARBON	8.2K	5%	1/4W
R357	1-249-428-11	CARBON	8.2K	5%	1/4W
R358	1-249-425-11	CARBON	4.7K	5%	1/4W
R359	1-249-435-11	CARBON	33K	5%	1/4W
R391	1-249-422-11	CARBON	2.7K	5%	1/4W
R392	1-249-422-11	CARBON	2.7K	5%	1/4W
R393	1-249-426-11	CARBON	5.6K	5%	1/4W
R394	1-249-426-11	CARBON	5.6K	5%	1/4W
R395	1-249-435-11	CARBON	33K	5%	1/4W
R406	1-249-437-11	CARBON	47K	5%	1/4W
R407	1-249-437-11	CARBON	47K	5%	1/4W
R408	1-249-425-11	CARBON	4.7K	5%	1/4W
R409	1-249-441-11	CARBON	100K	5%	1/4W
R410	1-249-421-11	CARBON	2.2K	5%	1/4W
⚠R411	1-215-894-11	METAL OXIDE	2.2K	5%	2W F
R413	1-249-402-11	CARBON	56	5%	1/4W
R414	1-249-417-11	CARBON	1K	5%	1/4W
R415	1-249-429-11	CARBON	10K	5%	1/4W
R416	1-249-437-11	CARBON	47K	5%	1/4W
R417	1-249-417-11	CARBON	1K	5%	1/4W
R421	1-260-089-11	CARBON	150	5%	1/2W
R422	1-260-089-11	CARBON	150	5%	1/2W
R431	1-249-438-11	CARBON	56K	5%	1/4W
R432	1-249-437-11	CARBON	47K	5%	1/4W
R434	1-249-433-11	CARBON	22K	5%	1/4W
R435	1-249-435-11	CARBON	33K	5%	1/4W
R437	1-249-429-11	CARBON	10K	5%	1/4W
R438	1-249-429-11	CARBON	10K	5%	1/4W
R439	1-249-425-11	CARBON	4.7K	5%	1/4W
R440	1-249-433-11	CARBON	22K	5%	1/4W
R441	1-249-435-11	CARBON	33K	5%	1/4W
R443	1-249-417-11	CARBON	1K	5%	1/4W
R471	1-260-089-11	CARBON	150	5%	1/2W
R472	1-260-089-11	CARBON	150	5%	1/2W
R473	1-249-402-11	CARBON	56	5%	1/4W
R474	1-249-417-11	CARBON	1K	5%	1/4W
R481	1-260-089-11	CARBON	150	5%	1/2W

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MAIN

Ref. No.	Part No.	Description			Remark
R482	1-260-089-11	CARBON	150	5%	1/2W
R483	1-260-089-11	CARBON	150	5%	1/2W
R484	1-260-089-11	CARBON	150	5%	1/2W
R501	1-249-413-11	CARBON	470	5%	1/4W
R502	1-249-425-11	CARBON	4.7K	5%	1/4W
R503	1-249-437-11	CARBON	47K	5%	1/4W
R504	1-249-437-11	CARBON	47K	5%	1/4W
R505	1-249-429-11	CARBON	10K	5%	1/4W
R508	1-249-417-11	CARBON	1K	5%	1/4W
R509	1-249-441-11	CARBON	100K	5%	1/4W
R521	1-249-425-11	CARBON	4.7K	5%	1/4W
R522	1-249-407-11	CARBON	150	5%	1/4W (VX5A/VX5AJ)
R522	1-249-411-11	CARBON	330	5%	1/4W (VX7A)
R523	1-249-425-11	CARBON	4.7K	5%	1/4W
R524	1-249-407-11	CARBON	150	5%	1/4W (E, MY, SP, IA, HK, TW)
R524	1-249-415-11	CARBON	680	5%	1/4W (TH)
R524	1-249-419-11	CARBON	1.5K	5%	1/4W (JE)
R524	1-249-425-11	CARBON	4.7K	5%	1/4W (EA)
R527	1-249-429-11	CARBON	10K	5%	1/4W
R536	1-249-429-11	CARBON	10K	5%	1/4W
R550	1-247-843-11	CARBON	3.3K	5%	1/4W
R551	1-249-429-11	CARBON	10K	5%	1/4W
R567	1-247-807-31	CARBON	100	5%	1/4W
R568	1-249-429-11	CARBON	10K	5%	1/4W
R569	1-249-429-11	CARBON	10K	5%	1/4W
R570	1-249-429-11	CARBON	10K	5%	1/4W
R571	1-249-429-11	CARBON	10K	5%	1/4W
R577	1-249-429-11	CARBON	10K	5%	1/4W
R610	1-247-891-00	CARBON	330K	5%	1/4W
R617	1-249-429-11	CARBON	10K	5%	1/4W
R618	1-247-807-31	CARBON	100	5%	1/4W
R622	1-249-425-11	CARBON	4.7K	5%	1/4W
R626	1-247-807-31	CARBON	100	5%	1/4W
R627	1-247-807-31	CARBON	100	5%	1/4W
R629	1-247-807-31	CARBON	100	5%	1/4W
R630	1-247-807-31	CARBON	100	5%	1/4W
R636	1-247-807-31	CARBON	100	5%	1/4W
R639	1-247-807-31	CARBON	100	5%	1/4W
R640	1-247-807-31	CARBON	100	5%	1/4W
R642	1-247-807-31	CARBON	100	5%	1/4W
R643	1-247-807-31	CARBON	100	5%	1/4W
R649	1-247-807-31	CARBON	100	5%	1/4W
R650	1-247-807-31	CARBON	100	5%	1/4W
R651	1-247-807-31	CARBON	100	5%	1/4W
R652	1-247-807-31	CARBON	100	5%	1/4W
R653	1-247-807-31	CARBON	100	5%	1/4W
R654	1-247-807-31	CARBON	100	5%	1/4W
R655	1-247-807-31	CARBON	100	5%	1/4W
R659	1-247-807-31	CARBON	100	5%	1/4W
R660	1-247-807-31	CARBON	100	5%	1/4W
R661	1-247-807-31	CARBON	100	5%	1/4W
R663	1-247-807-31	CARBON	100	5%	1/4W
R665	1-247-807-31	CARBON	100	5%	1/4W
R666	1-247-807-31	CARBON	100	5%	1/4W
R667	1-247-807-31	CARBON	100	5%	1/4W
R668	1-247-807-31	CARBON	100	5%	1/4W
R669	1-247-807-31	CARBON	100	5%	1/4W
R670	1-247-807-31	CARBON	100	5%	1/4W
R671	1-247-807-31	CARBON	100	5%	1/4W
R686	1-247-807-31	CARBON	100	5%	1/4W
R687	1-247-807-31	CARBON	100	5%	1/4W
R688	1-247-807-31	CARBON	100	5%	1/4W
R689	1-247-807-31	CARBON	100	5%	1/4W
R690	1-247-807-31	CARBON	100	5%	1/4W
R691	1-247-807-31	CARBON	100	5%	1/4W
R801	1-249-417-11	CARBON	1K	5%	1/4W
R802	1-249-438-11	CARBON	56K	5%	1/4W
R803	1-247-822-11	CARBON	430	5%	1/4W (VX5AJ/VX7A)
R803	1-249-413-11	CARBON	470	5%	1/4W (VX5A)
R804	1-249-438-11	CARBON	56K	5%	1/4W
R805	1-249-417-11	CARBON	1K	5%	1/4W
R806	1-249-431-11	CARBON	15K	5%	1/4W
R807	1-249-441-11	CARBON	100K	5%	1/4W
⚠R808	1-220-893-11	METAL	0.22	10%	5W F
R809	1-260-076-11	CARBON	10	5%	1/2W
R810	1-260-105-11	CARBON	3.3K	5%	1/2W
⚠R811	1-212-881-11	FUSIBLE	100	5%	1/4W F
⚠R812	1-202-972-61	FUSIBLE	1	5%	1/4W F
R813	1-249-435-11	CARBON	33K	5%	1/4W
R814	1-249-421-11	CARBON	2.2K	5%	1/4W
R815	1-249-433-11	CARBON	22K	5%	1/4W
R816	1-249-429-11	CARBON	10K	5%	1/4W
R817	1-249-421-11	CARBON	2.2K	5%	1/4W
R818	1-249-435-11	CARBON	33K	5%	1/4W
R819	1-249-439-11	CARBON	68K	5%	1/4W
R831	1-249-441-11	CARBON	100K	5%	1/4W
R832	1-249-441-11	CARBON	100K	5%	1/4W
R833	1-249-436-11	CARBON	39K	5%	1/4W (VX5AJ/VX7A)
R833	1-249-437-11	CARBON	47K	5%	1/4W (VX5A)
R842	1-249-441-11	CARBON	100K	5%	1/4W
R851	1-249-417-11	CARBON	1K	5%	1/4W
R852	1-249-438-11	CARBON	56K	5%	1/4W
R853	1-247-822-11	CARBON	430	5%	1/4W (VX5AJ/VX7A)
R853	1-249-413-11	CARBON	470	5%	1/4W (VX5A)
R854	1-249-438-11	CARBON	56K	5%	1/4W
R855	1-249-417-11	CARBON	1K	5%	1/4W
R856	1-249-431-11	CARBON	15K	5%	1/4W
R857	1-249-441-11	CARBON	100K	5%	1/4W
⚠R858	1-220-893-11	METAL	0.22	10%	5W F
R859	1-260-076-11	CARBON	10	5%	1/2W
R860	1-260-105-11	CARBON	3.3K	5%	1/2W
⚠R861	1-212-881-11	FUSIBLE	100	5%	1/4W F
R881	1-249-435-11	CARBON	33K	5%	1/4W
R882	1-249-435-11	CARBON	33K	5%	1/4W
R892	1-249-441-11	CARBON	100K	5%	1/4W

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Ref. No.	Part No.	Description			Remark
R901	1-247-843-11	CARBON	3.3K	5%	1/4W
R902	1-249-415-11	CARBON	680	5%	1/4W
R903	1-249-419-11	CARBON	1.5K	5%	1/4W
R904	1-249-414-11	CARBON	560	5%	1/4W
R905	1-249-425-11	CARBON	4.7K	5%	1/4W
R906	1-247-843-11	CARBON	3.3K	5%	1/4W
R907	1-249-415-11	CARBON	680	5%	1/4W
R908	1-249-429-11	CARBON	10K	5%	1/4W
R909	1-249-430-11	CARBON	12K	5%	1/4W
R911	1-249-409-11	CARBON	220	5%	1/4W
R916	1-249-421-11	CARBON	2.2K	5%	1/4W
R917	1-260-087-81	CARBON	100	5%	1/2W
R918	1-249-421-11	CARBON	2.2K	5%	1/4W
R919	1-249-409-11	CARBON	220	5%	1/4W
R920	1-249-383-11	CARBON	1.5	5%	1/6W
R921	1-249-383-11	CARBON	1.5	5%	1/6W
R931	1-249-429-11	CARBON	10K	5%	1/4W
		< VARIABLE RESISTOR >			
RV301	1-238-600-11	RES, ADJ, CARBON 10K			
RV351	1-238-600-11	RES, ADJ, CARBON 10K			
		< RELAY >			
RY401	1-755-168-11	RELAY			
		< THERMISTOR >			
TH831	1-807-796-11	THERMISTOR			
		< TERMINAL >			
TM401	1-537-240-31	TERMINAL BOARD (CHECKER PIN) (SPEAKER)			
TM402	1-537-240-31	TERMINAL BOARD (CHECKER PIN) (SURROUND SPEAKER) (VX7A)			
		< VIBRATOR >			
X601	1-567-098-41	VIBRATOR, CRYSTAL (32.768kHz)			
X613	1-781-107-21	VIBRATOR, SERAMIC (16MHz)			
**********					
*	1-658-578-11	MOTOR (SLIDE) BOARD **********			
		< CAPACITOR >			
C801	1-162-306-11	CERAMIC	0.01uF	30%	16V
C804	1-162-306-11	CERAMIC	0.01uF	30%	16V
C805	1-126-964-11	ELECT	10uF	20%	50V
		< CONNECTOR >			
* CN801	1-568-947-11	PIN, CONNECTOR 9P			
		< DIODE >			
D801	8-719-921-48	DIODE MTZJ-T-72-5.6C			
D804	8-719-911-19	DIODE 1N4148M-TP			
D805	8-719-911-19	DIODE 1N4148M-TP			
		< IC >			
IC801	8-759-274-09	IC BA6286N			

Ref. No.	Part No.	Description			Remark
		< RESISTOR >			
R801	1-249-401-11	CARBON	47	5%	1/4W
		< SWITCH >			
S801	1-762-527-11	SWITCH, ROTARY (OPEN/CLOSE DET)			
**********					
*	1-658-577-11	MOTOR (TURN) BOARD **********			
		< CAPACITOR >			
C701	1-162-306-11	CERAMIC	0.01uF	30%	16V
C702	1-126-964-11	ELECT	10uF	20%	50V
C705	1-162-306-11	CERAMIC	0.01uF	30%	16V
		< CONNECTOR >			
CN703	1-785-550-11	CONNECTOR, FFC/FPC 8P			
CN704	1-506-469-11	PIN, CONNECTOR 4P			
		< DIODE >			
D701	8-719-983-66	DIODE MTZJ-T-72-3.6B			
		< IC >			
IC701	8-759-633-65	IC M54641L			
		< RESISTOR >			
R706	1-249-411-11	CARBON	330	5%	1/4W
R707	1-249-401-11	CARBON	47	5%	1/4W
**********					
	A-4419-160-A	PANEL BOARD, COMPLETE (VX7A: E, EA, MY, SP)			
	A-4419-152-A	PANEL BOARD, COMPLETE (VX5A: E, EA, MY, SP, HK, TW)			
	A-4426-093-A	PANEL BOARD, COMPLETE (VX5AJ)			
	A-4426-139-A	PANEL BOARD, COMPLETE (VX5A: IA)			
	A-4426-147-A	PANEL BOARD, COMPLETE (VX7A: IA)			
	A-4426-156-A	PANEL BOARD, COMPLETE (VX5A: TH)			
	A-4426-164-A	PANEL BOARD, COMPLETE (VX7A: TH) **********			
*	4-214-439-11	HOLDER, FL TUBE			
*	4-949-935-81	CUSHION (FL)			
		< CAPACITOR >			
C601	1-124-589-11	ELECT	47uF	20%	16V
C602	1-126-163-11	ELECT	4.7uF	20%	50V
C603	1-162-306-11	CERAMIC	0.01uF	30%	16V
C604	1-162-294-31	CERAMIC	0.001uF	10%	50V
C606	1-126-160-11	ELECT	1uF	20%	50V
C607	1-126-160-11	ELECT	1uF	20%	50V
C610	1-124-589-11	ELECT	47uF	20%	16V
C611	1-162-306-11	CERAMIC	0.01uF	30%	16V
C612	1-162-306-11	CERAMIC	0.01uF	30%	16V
C614	1-162-306-11	CERAMIC	0.01uF	30%	16V
C615	1-162-306-11	CERAMIC	0.01uF	30%	16V
C616	1-126-157-11	ELECT	10uF	20%	16V
C617	1-162-303-11	CERAMIC	0.0033uF	30%	16V

PANEL

Ref. No.	Part No.	Description			Remark
C618	1-126-157-11	ELECT	10uF	20%	16V
C619	1-126-157-11	ELECT	10uF	20%	16V
C620	1-126-163-11	ELECT	4.7uF	20%	50V
C625	1-126-157-11	ELECT	10uF	20%	16V
C627	1-162-306-11	CERAMIC	0.01uF	30%	16V
C628	1-126-157-11	ELECT	10uF	20%	16V
C630	1-162-306-11	CERAMIC	0.01uF	30%	16V
C651	1-162-282-31	CERAMIC	100PF	10%	50V
C652	1-162-282-31	CERAMIC	100PF	10%	50V
C653	1-162-282-31	CERAMIC	100PF	10%	50V
C654	1-162-282-31	CERAMIC	100PF	10%	50V
C655	1-162-282-31	CERAMIC	100PF	10%	50V
C656	1-162-282-31	CERAMIC	100PF	10%	50V
C657	1-162-282-31	CERAMIC	100PF	10%	50V
C658	1-162-282-31	CERAMIC	100PF	10%	50V
C659	1-162-282-31	CERAMIC	100PF	10%	50V
C660	1-162-282-31	CERAMIC	100PF	10%	50V
C661	1-162-282-31	CERAMIC	100PF	10%	50V
C662	1-162-282-31	CERAMIC	100PF	10%	50V
C663	1-162-282-31	CERAMIC	100PF	10%	50V
C664	1-162-282-31	CERAMIC	100PF	10%	50V
C665	1-162-282-31	CERAMIC	100PF	10%	50V
C666	1-162-282-31	CERAMIC	100PF	10%	50V
C667	1-162-282-31	CERAMIC	100PF	10%	50V
C668	1-162-282-31	CERAMIC	100PF	10%	50V
C701	1-162-294-31	CERAMIC	0.001uF	10%	50V
C702	1-162-294-31	CERAMIC	0.001uF	10%	50V
C703	1-164-159-11	CERAMIC	0.1uF		50V
C711	1-162-294-31	CERAMIC	0.001uF	10%	50V
C712	1-162-305-11	CERAMIC	0.0068uF	30%	16V
C713	1-126-160-11	ELECT	1uF	20%	50V
C714	1-136-495-11	FILM	0.068uF	5%	50V
C715	1-124-465-00	ELECT	0.47uF	20%	50V
C716	1-124-465-00	ELECT	0.47uF	20%	50V
C717	1-136-167-00	FILM	0.15uF	5%	50V
C718	1-162-294-31	CERAMIC	0.001uF	10%	50V
C719	1-126-160-11	ELECT	1uF	20%	50V
C720	1-161-494-00	CERAMIC	0.022uF	25V	
C721	1-162-305-11	CERAMIC	0.0068uF	30%	16V
C722	1-136-495-11	FILM	0.068uF	5%	50V
C723	1-124-589-11	ELECT	47uF	20%	16V
C724	1-136-165-00	FILM	0.1uF	5%	50V
C725	1-124-589-11	ELECT	47uF	20%	16V
C731	1-162-306-11	CERAMIC	0.01uF	30%	16V
C732	1-124-257-00	ELECT	2.2uF	20%	50V
C733	1-162-294-31	CERAMIC	0.001uF	10%	50V
C734	1-162-215-31	CERAMIC	47PF	5%	50V
C735	1-124-261-00	ELECT	10uF	20%	50V
C736	1-162-290-31	CERAMIC	470PF	10%	50V
C737	1-124-463-00	ELECT	0.1uF	20%	50V
C738	1-124-257-00	ELECT	2.2uF	20%	50V
C739	1-162-215-31	CERAMIC	47PF	5%	50V
C741	1-124-261-00	ELECT	10uF	20%	50V
C742	1-162-282-31	CERAMIC	100PF	10%	50V
C743	1-124-257-00	ELECT	2.2uF	20%	50V
C744	1-162-306-11	CERAMIC	0.01uF	30%	16V
C745	1-124-257-00	ELECT	2.2uF	20%	50V

Ref. No.	Part No.	Description		Remark
C747	1-164-159-11	CERAMIC	0.1uF	50V
		< CONNECTOR >		
CN601	1-784-745-11	CONNECTOR, FFC 23P		
		< DIODE >		
D610	8-719-050-84	DIODE RB441Q-40T-72		
D611	8-719-073-47	LED SML72923C-TP15 (REC PAUSE/START)		
D612	8-719-056-13	LED SML79423C-TP15 (▶II CD)		
D613	8-719-058-03	LED SEL5423E-TP15 (▶ TAPE B)		
D614	8-719-058-03	LED SEL5423E-TP15 (◀ TAPE B)		
D615	8-719-058-03	LED SEL5423E-TP15 (▶ TAPE A)		
D616	8-719-058-03	LED SEL5423E-TP15 (◀ TAPE A)		
D617	8-719-057-97	LED SEL5923A-TP15 (PBC OFF)		
D618	8-719-057-97	LED SEL5923A-TP15 (PBC)		
D619	8-719-057-97	LED SEL5923A-TP15 (SYNC BASS L)		
D620	8-719-057-97	LED SEL5923A-TP15 (SYNC BASS H)		
D621	8-719-057-97	LED SEL5923A-TP15 (SYNC EQ)		
D622	8-719-063-93	LED SLR325VC-N-T32 (EFFECT)		
D623	8-719-057-97	LED SEL5923A-TP15 (VIDEO CD)		
D624	8-719-063-93	LED SLR325VC-N-T32 (CD NON-STOP)		
D627	8-719-057-97	LED SEL5923A-TP15 (GROOVE)		
D628	8-719-063-93	LED SLR325VC-N-T32 (ENTER/NEXT)		
D629	8-719-063-93	LED SLR325VC-N-T32 (JOG DIAL)		
D630	8-719-057-97	LED SEL5923A-TP15 (- ◀◀)		
D631	8-719-057-97	LED SEL5923A-TP15 (+ ▶▶)		
D632	8-719-063-93	LED SLR325VC-N-T32 (TIMER SELECT)		
D701	8-719-109-85	DIODE MTZJ-T-72-5.1B		
		< EARTH TERMINAL >		
* EP601	1-537-738-21	TERMINAL, EARTH		
		< FERRITE BEAD >		
FB601	1-412-473-21	FERRITE	0uH	
FB602	1-412-473-21	FERRITE	0uH	
		< FLUORESCENT INDICATOR TUBE>		
FL601	1-517-831-31	INDICATOR TUBE, FLUORESCENT		
		< IC >		
IC601	8-759-589-14	IC TMP88CS76F-6005		
IC602	8-749-011-05	IC GP1U28X (REMOTE CONTROL RECEIVER)		
IC603	8-759-083-77	IC BA3830F		
IC604	8-759-342-19	IC NJU3716M-T2		
IC711	8-759-496-40	IC M65850FP		
IC712	8-759-636-55	IC M5218AFP-T1		
		< JACK >		
J701	1-785-569-11	JACK (SMALL TYPE) (PHONES)		
J711	1-785-569-11	JACK (SMALL TYPE) (MIC 2)		
J712	1-785-569-11	JACK (SMALL TYPE) (MIC 1)		
		< COIL >		
L601	1-410-509-11	INDUCTOR	10uH	
L602	1-410-517-11	INDUCTOR	47uH	

Ref. No.	Part No.	Description			Remark
		< TRANSISTOR >			
Q601	8-729-118-00	TRANSISTOR	2SB1116-TP-LK		
Q602	8-729-118-00	TRANSISTOR	2SB1116-TP-LK		
Q603	8-729-119-78	TRANSISTOR	2SC2785TP-HFE		
Q604	8-729-422-57	TRANSISTOR	BN1A4M-TP		
Q605	8-729-422-57	TRANSISTOR	BN1A4M-TP		
Q606	8-729-900-80	TRANSISTOR	BA1A4M-TP		
Q607	8-729-900-74	TRANSISTOR	BA1L3Z-TP		
Q608	8-729-900-74	TRANSISTOR	BA1L3Z-TP		
Q609	8-729-900-74	TRANSISTOR	BA1L3Z-TP		
Q610	8-729-900-74	TRANSISTOR	BA1L3Z-TP		
Q611	8-729-900-74	TRANSISTOR	BA1L3Z-TP		
Q612	8-729-900-74	TRANSISTOR	BA1L3Z-TP		
Q613	8-729-900-74	TRANSISTOR	BA1L3Z-TP		
		< RESISTOR >			
R600	1-247-903-00	CARBON	1M	5%	1/4W
R601	1-247-807-31	CARBON	100	5%	1/4W
R602	1-249-429-11	CARBON	10K	5%	1/4W
R603	1-247-807-31	CARBON	100	5%	1/4W
R604	1-247-807-31	CARBON	100	5%	1/4W
R605	1-249-429-11	CARBON	10K	5%	1/4W
R606	1-249-401-11	CARBON	47	5%	1/4W
R607	1-247-893-11	CARBON	390K	5%	1/4W
R608	1-247-893-11	CARBON	390K	5%	1/4W
R609	1-249-441-11	CARBON	100K	5%	1/4W
R610	1-249-429-11	CARBON	10K	5%	1/4W
R611	1-249-441-11	CARBON	100K	5%	1/4W
R612	1-249-401-11	CARBON	47	5%	1/4W
R613	1-249-435-11	CARBON	33K	5%	1/4W
R614	1-247-895-00	CARBON	470K	5%	1/4W
R615	1-249-429-11	CARBON	10K	5%	1/4W
R616	1-249-441-11	CARBON	100K	5%	1/4W
R617	1-249-441-11	CARBON	100K	5%	1/4W
R618	1-249-441-11	CARBON	100K	5%	1/4W
R619	1-249-441-11	CARBON	100K	5%	1/4W
R620	1-249-441-11	CARBON	100K	5%	1/4W
R621	1-249-429-11	CARBON	10K	5%	1/4W
R622	1-249-410-11	CARBON	270	5%	1/4W
R623	1-249-411-11	CARBON	330	5%	1/4W
R624	1-249-413-11	CARBON	470	5%	1/4W
R625	1-249-414-11	CARBON	560	5%	1/4W
R626	1-249-415-11	CARBON	680	5%	1/4W
R627	1-249-417-11	CARBON	1K	5%	1/4W
R628	1-249-418-11	CARBON	1.2K	5%	1/4W
R629	1-249-420-11	CARBON	1.8K	5%	1/4W
R630	1-249-422-11	CARBON	2.7K	5%	1/4W
R631	1-247-843-11	CARBON	3.3K	5%	1/4W
R632	1-249-425-11	CARBON	4.7K	5%	1/4W
R633	1-249-427-11	CARBON	6.8K	5%	1/4W (VX7A)
R634	1-249-429-11	CARBON	10K	5%	1/4W (VX7A)
R635	1-249-431-11	CARBON	15K	5%	1/4W (VX7A)
R636	1-249-429-11	CARBON	10K	5%	1/4W
R637	1-249-410-11	CARBON	270	5%	1/4W
R638	1-249-411-11	CARBON	330	5%	1/4W
R639	1-249-413-11	CARBON	470	5%	1/4W
R640	1-249-414-11	CARBON	560	5%	1/4W
R641	1-249-415-11	CARBON	680	5%	1/4W
R642	1-249-417-11	CARBON	1K	5%	1/4W
R643	1-249-418-11	CARBON	1.2K	5%	1/4W
R644	1-249-420-11	CARBON	1.8K	5%	1/4W
R645	1-249-422-11	CARBON	2.7K	5%	1/4W
R646	1-247-843-11	CARBON	3.3K	5%	1/4W
R647	1-249-425-11	CARBON	4.7K	5%	1/4W
R650	1-249-429-11	CARBON	10K	5%	1/4W
R651	1-249-410-11	CARBON	270	5%	1/4W
R652	1-249-411-11	CARBON	330	5%	1/4W
R653	1-249-413-11	CARBON	470	5%	1/4W
R654	1-249-414-11	CARBON	560	5%	1/4W
R655	1-249-415-11	CARBON	680	5%	1/4W
R656	1-249-429-11	CARBON	10K	5%	1/4W
R657	1-249-410-11	CARBON	270	5%	1/4W
R658	1-249-411-11	CARBON	330	5%	1/4W
R659	1-249-413-11	CARBON	470	5%	1/4W
R660	1-249-414-11	CARBON	560	5%	1/4W
R661	1-249-415-11	CARBON	680	5%	1/4W
R662	1-249-417-11	CARBON	1K	5%	1/4W
R663	1-249-418-11	CARBON	1.2K	5%	1/4W
R664	1-249-420-11	CARBON	1.8K	5%	1/4W
R665	1-249-422-11	CARBON	2.7K	5%	1/4W
R666	1-249-417-11	CARBON	1K	5%	1/4W
R667	1-249-417-11	CARBON	1K	5%	1/4W
R668	1-249-441-11	CARBON	100K	5%	1/4W
R669	1-249-441-11	CARBON	100K	5%	1/4W
R670	1-249-414-11	CARBON	560	5%	1/4W
R671	1-249-437-11	CARBON	47K	5%	1/4W
R672	1-249-417-11	CARBON	1K	5%	1/4W
R673	1-249-437-11	CARBON	47K	5%	1/4W
R674	1-249-417-11	CARBON	1K	5%	1/4W
R675	1-249-437-11	CARBON	47K	5%	1/4W
R676	1-249-429-11	CARBON	10K	5%	1/4W
R678	1-249-407-11	CARBON	150	5%	1/4W
R679	1-249-407-11	CARBON	150	5%	1/4W
R680	1-247-804-11	CARBON	75	5%	1/4W
R681	1-249-407-11	CARBON	150	5%	1/4W
R682	1-247-804-11	CARBON	75	5%	1/4W
R683	1-247-804-11	CARBON	75	5%	1/4W
R684	1-247-804-11	CARBON	75	5%	1/4W
R685	1-247-804-11	CARBON	75	5%	1/4W
R686	1-249-407-11	CARBON	150	5%	1/4W
R687	1-249-407-11	CARBON	150	5%	1/4W
R688	1-249-402-11	CARBON	56	5%	1/4W
R689	1-249-402-11	CARBON	56	5%	1/4W
R690	1-249-402-11	CARBON	56	5%	1/4W
R691	1-249-407-11	CARBON	150	5%	1/4W
R692	1-249-407-11	CARBON	150	5%	1/4W
R693	1-249-407-11	CARBON	150	5%	1/4W
R696	1-249-402-11	CARBON	56	5%	1/4W
R697	1-249-407-11	CARBON	150	5%	1/4W
R698	1-249-407-11	CARBON	150	5%	1/4W
R699	1-247-807-31	CARBON	100	5%	1/4W
R700	1-247-807-31	CARBON	100	5%	1/4W

PANEL | SENSOR | SURROUND

Ref. No.	Part No.	Description			Remark
R701	1-249-429-11	CARBON	10K	5%	1/4W
R702	1-249-429-11	CARBON	10K	5%	1/4W
R703	1-249-429-11	CARBON	10K	5%	1/4W
R704	1-249-429-11	CARBON	10K	5%	1/4W
R705	1-249-429-11	CARBON	10K	5%	1/4W
R710	1-249-401-11	CARBON	47	5%	1/4W
R711	1-249-433-11	CARBON	22K	5%	1/4W
R712	1-249-433-11	CARBON	22K	5%	1/4W
R713	1-249-433-11	CARBON	22K	5%	1/4W
R714	1-249-437-11	CARBON	47K	5%	1/4W
R715	1-249-433-11	CARBON	22K	5%	1/4W
R716	1-249-431-11	CARBON	15K	5%	1/4W
R717	1-249-433-11	CARBON	22K	5%	1/4W
R718	1-249-433-11	CARBON	22K	5%	1/4W
R719	1-247-881-00	CARBON	120K	5%	1/4W
R721	1-249-429-11	CARBON	10K	5%	1/4W
R722	1-249-417-11	CARBON	1K	5%	1/4W
R723	1-249-441-11	CARBON	100K	5%	1/4W
R724	1-249-417-11	CARBON	1K	5%	1/4W
R725	1-249-437-11	CARBON	47K	5%	1/4W
R726	1-249-429-11	CARBON	10K	5%	1/4W
R727	1-249-431-11	CARBON	15K	5%	1/4W
R728	1-247-885-00	CARBON	180K	5%	1/4W
R729	1-247-807-31	CARBON	100	5%	1/4W
R731	1-249-440-11	CARBON	82K	5%	1/4W
R732	1-249-435-11	CARBON	33K	5%	1/4W
R733	1-249-438-11	CARBON	56K	5%	1/4W
R734	1-249-417-11	CARBON	1K	5%	1/4W
R735	1-249-420-11	CARBON	1.8K	5%	1/4W
R741	1-249-421-11	CARBON	2.2K	5%	1/4W
R742	1-249-421-11	CARBON	2.2K	5%	1/4W
R743	1-249-421-11	CARBON	2.2K	5%	1/4W
R768	1-249-417-11	CARBON	1K	5%	1/4W
R769	1-249-429-11	CARBON	10K	5%	1/4W
		< VARIABLE RESISTOR >			
RV711	1-225-739-11	RES, VAR 50K (ECHO LEVEL)			
RV712	1-225-739-11	RES, VAR 50K (MIC LEVEL)			
		< SWITCH >			
S601	1-473-534-11	ENCODER, ROTARY (JOG DIAL)			
S602	1-473-392-11	ENCODER, ROTARY (VOLUME)			
S611	1-762-875-21	SWITCH, KEYBOARD (SYNC BASS)			
S612	1-762-875-21	SWITCH, KEYBOARD (SYNC EQ)			
S613	1-762-875-21	SWITCH, KEYBOARD (KARAOKE/PON MPX)			
S614	1-762-875-21	SWITCH, KEYBOARD (CD NON-STOP)			
S615	1-762-875-21	SWITCH, KEYBOARD (CINEMA SPACE/SURROUND)			
S616	1-762-875-21	SWITCH, KEYBOARD (DBFB)			
S617	1-762-875-21	SWITCH, KEYBOARD (ENTER/NEXT)			
S618	1-762-875-21	SWITCH, KEYBOARD (+ ▶▶)			
S619	1-762-875-21	SWITCH, KEYBOARD (- ◀◀)			
S620	1-762-875-21	SWITCH, KEYBOARD (GROOVE)			
S621	1-762-875-21	SWITCH, KEYBOARD (CD FLASH)			
S622	1-762-875-21	SWITCH, KEYBOARD (REPEAT, STEREO/MONO) (VX7A)			
S623	1-762-875-21	SWITCH, KEYBOARD (PLAY MODE, DOLBY NR) (VX7A)			
S624	1-762-875-21	SWITCH, KEYBOARD (EDIT, DIRECTION, TUNER MEMORY) (VX7A)			
S625	1-762-875-21	SWITCH, KEYBOARD (REC PAUSE/START)			
S626	1-762-875-21	SWITCH, KEYBOARD (HI-DUB)			
S627	1-762-875-21	SWITCH, KEYBOARD (CD SYNC)			
S628	1-762-875-21	SWITCH, KEYBOARD (CD LOOP)			
S629	1-762-875-21	SWITCH, KEYBOARD (DISPLAY)			
S630	1-762-875-21	SWITCH, KEYBOARD (SPECTRUM ANALYZER)			
S632	1-762-875-21	SWITCH, KEYBOARD (SELECT)			
S633	1-762-875-21	SWITCH, KEYBOARD (RETURN)			
S634	1-762-875-21	SWITCH, KEYBOARD (PREV)			
S635	1-762-875-21	SWITCH, KEYBOARD (NEXT)			
S638	1-762-875-21	SWITCH, KEYBOARD (TIMER SELECT)			
S639	1-762-875-21	SWITCH, KEYBOARD (P FILE MEMORY)			
S640	1-762-875-21	SWITCH, KEYBOARD (GEQ CONTROL)			
S641	1-762-875-21	SWITCH, KEYBOARD (FILE SELECT)			
S642	1-762-875-21	SWITCH, KEYBOARD (EFFECT)			
S643	1-762-875-21	SWITCH, KEYBOARD (TUNER/BAND)			
S644	1-762-875-21	SWITCH, KEYBOARD (▶II CD)			
S645	1-762-875-21	SWITCH, KEYBOARD (■)			
S646	1-762-875-21	SWITCH, KEYBOARD (► TAPE B)			
S647	1-762-875-21	SWITCH, KEYBOARD (◄ TAPE B)			
S648	1-762-875-21	SWITCH, KEYBOARD (► TAPE A)			
S649	1-762-875-21	SWITCH, KEYBOARD (◄ TAPE A)			
S650	1-762-875-21	SWITCH, KEYBOARD (FUNCTION)			
S651	1-762-875-21	SWITCH, KEYBOARD (CLOCK TIMER SET)			
		< VIBRATOR >			
X601	1-781-312-11	VIBRATOR, CERAMIC (12.5MHz)			
**********					
*	1-658-576-11	SENSOR BOARD			
		**********			
		< PHOTO INTERRUPTER >			
IC702	8-749-924-18	PHOTO INTERRUPTER RPI-1391			
		< PHOTO REFLECTOR >			
IC703	8-749-924-30	PHOTO REFLECTOR GP2S28			
		< RESISTOR >			
R701	1-249-416-11	CARBON	820	5%	1/4W
R702	1-249-407-11	CARBON	150	5%	1/4W
**********					
	A-4426-097-A	SURROUND BOARD, COMPLETE			
		**********			
		< CAPACITOR >			
C1201	1-162-203-31	CERAMIC	15PF	5%	50V
C1202	1-162-216-31	CERAMIC	51PF	5%	50V
C1203	1-162-282-31	CERAMIC	100PF	10%	50V
C1204	1-162-283-31	CERAMIC	120PF	10%	50V
C1205	1-162-279-31	CERAMIC	75PF	10%	50V
C1206	1-136-165-00	FILM	0.1uF	5%	50V
C1207	1-162-306-11	CERAMIC	0.01uF	30%	16V
C1208	1-126-934-11	ELECT	220uF	20%	10V
C1209	1-136-165-00	FILM	0.1uF	5%	50V
C1210	1-126-964-11	ELECT	10uF	20%	50V

Ref. No.	Part No.	Description			Remark
C1211	1-126-964-11	ELECT	10uF	20%	50V
C1212	1-162-306-11	CERAMIC	0.01uF	30%	16V
C1213	1-126-934-11	ELECT	220uF	20%	10V
C1214	1-136-167-00	FILM	0.15uF	5%	50V
C1215	1-162-303-11	CERAMIC	0.0033uF	30%	16V
C1216	1-136-167-00	FILM	0.15uF	5%	50V
C1217	1-124-252-00	ELECT	0.33uF	20%	50V
C1218	1-126-934-11	ELECT	220uF	20%	10V
C1219	1-126-964-11	ELECT	10uF	20%	50V
C1220	1-126-964-11	ELECT	10uF	20%	50V
C1221	1-162-216-31	CERAMIC	51PF	5%	50V
		< CONNECTOR >			
* CN1201	1-564-788-11	PIN, CONNECTOR 8P			
		< IC >			
IC1201	8-759-579-61	IC LV1150			
		< COIL >			
L1201	1-410-509-11	INDUCTOR	10uH		
		< RESISTOR >			
R1201	1-247-807-31	CARBON	100	5%	1/4W
R1203	1-249-441-11	CARBON	100K	5%	1/4W
R1204	1-249-441-11	CARBON	100K	5%	1/4W
R1205	1-249-417-11	CARBON	1K	5%	1/4W
R1206	1-249-441-11	CARBON	100K	5%	1/4W
R1207	1-249-441-11	CARBON	100K	5%	1/4W
**********					
*	1-672-369-11	TRANSFORMER BOARD			
		**********			
	1-533-217-31	HOLDER, FUSE			
		< CAPACITOR >			
C952	1-162-306-11	CERAMIC	0.01uF	30%	16V
C971	1-128-563-11	ELECT	100uF	20%	100V
C972	1-126-960-11	ELECT	1uF	20%	50V
C973	1-126-948-11	ELECT	100uF	20%	35V
		< CONNECTOR >			
CN951	1-564-321-00	PIN, CONNECTOR 2P			
* CN952	1-564-527-11	PLUG, CONNECTOR 12P			
CN953	1-785-329-11	PIN, CONNECTOR (LIGHT ANGLE) 3P			
		< DIODE >			
D971	8-719-024-99	DIODE 11ES2-NTA2B			
D972	8-719-986-60	DIODE HZS27-3LTA			
D973	8-719-109-63	DIODE MTZJ-T-72-3.0B			
		< FUSE >			
⚠F951	1-532-506-31	FUSE T6.3AL/250V			
		(EXCEPT VX5A: TH/VX7A: TH)			
⚠F961	1-532-505-31	FUSE T5AL/250V			
⚠F962	1-532-505-31	FUSE T5AL/250V			
⚠F963	1-532-506-31	FUSE T6.3AL/250V			
⚠F964	1-532-506-31	FUSE T6.3AL/250V			
		< TRANSISTOR >			
Q971	8-729-048-52	TRANSISTOR 2SA1932 (TP)			
		< RESISTOR >			
⚠R951	1-219-122-91	FUSIBLE	0.33	5%	1/4W F
⚠R952	1-219-122-91	FUSIBLE	0.33	5%	1/4W F
⚠R953	1-219-119-81	FUSIBLE	0.1	5%	1/4W F
⚠R971	1-216-456-00	METAL OXIDE	820	5%	2W F
R972	1-249-429-11	CARBON	10K	5%	1/4W
R973	1-249-429-11	CARBON	10K	5%	1/4W
R974	1-247-807-31	CARBON	100	5%	1/4W
R975	1-247-807-31	CARBON	100	5%	1/4W
		< SWITCH >			
⚠S951	1-771-291-31	SWITCH, POWER (VOLTAGE SELECTOR)			
		(EXCEPT VX5A: TH/VX7A: TH)			
		< TRANSFORMER >			
⚠T951	1-433-561-21	TRANSFORMER, POWER (VX7A)			
⚠T951	1-433-565-11	TRANSFORMER, POWER (VX5A)			
⚠T951	1-433-565-21	TRANSFORMER, POWER (VX5AJ)			
**********					
	A-4724-823-A	VIDEO BOARD, COMPLETE			
		**********			
		< CAPACITOR >			
C101	1-124-778-00	ELECT CHIP	22uF	20%	6.3V
C102	1-163-143-00	CERAMIC CHIP	0.0012uF	5%	50V
C103	1-163-017-00	CERAMIC CHIP	0.0047uF	5%	50V
C104	1-126-206-11	ELECT CHIP	100uF	20%	6.3V
C201	1-124-778-00	ELECT CHIP	22uF	20%	6.3V
C202	1-163-143-00	CERAMIC CHIP	0.0012uF	5%	50V
C203	1-163-017-00	CERAMIC CHIP	0.0047uF	5%	50V
C301	1-163-127-00	CERAMIC CHIP	270PF	5%	50V
C302	1-163-127-00	CERAMIC CHIP	270PF	5%	50V
C303	1-163-235-11	CERAMIC CHIP	22PF	5%	50V
C304	1-163-235-11	CERAMIC CHIP	22PF	5%	50V
C305	1-163-263-11	CERAMIC CHIP	330PF	5%	50V
C306	1-163-263-11	CERAMIC CHIP	330PF	5%	50V
C310	1-163-137-00	CERAMIC CHIP	680PF	5%	50V
C311	1-216-295-00	SHORT	0		
C313	1-165-319-11	CERAMIC CHIP	0.1uF		50V
C314	1-165-319-11	CERAMIC CHIP	0.1uF		50V
C318	1-124-778-00	ELECT CHIP	22uF	20%	6.3V
C319	1-165-319-11	CERAMIC CHIP	0.1uF		50V
C401	1-165-319-11	CERAMIC CHIP	0.1uF		50V
C402	1-124-778-00	ELECT CHIP	22uF	20%	6.3V
C403	1-124-778-00	ELECT CHIP	22uF	20%	6.3V
C404	1-126-206-11	ELECT CHIP	100uF	20%	6.3V
C405	1-110-530-11	ELECT CHIP	1000uF	20%	6.3V
C406	1-110-530-11	ELECT CHIP	1000uF	20%	6.3V
C409	1-124-778-00	ELECT CHIP	22uF	20%	6.3V
C410	1-165-319-11	CERAMIC CHIP	0.1uF		50V
C411	1-165-319-11	CERAMIC CHIP	0.1uF		50V

The components identified by mark ⚠ or dotted line with mark ⚠ are critical for safety.
Replace only with part number specified.

VIDEO

Ref. No.	Part No.	Description			Remark
C412	1-165-319-11	CERAMIC CHIP	0.1uF		50V
C413	1-124-778-00	ELECT CHIP	22uF	20%	6.3V
C452	1-165-319-11	CERAMIC CHIP	0.1uF		50V
C501	1-163-251-11	CERAMIC CHIP	100PF	5%	50V
C502	1-163-251-11	CERAMIC CHIP	100PF	5%	50V
C503	1-163-251-11	CERAMIC CHIP	100PF	5%	50V
C504	1-165-319-11	CERAMIC CHIP	0.1uF		50V
C505	1-126-206-11	ELECT CHIP	100uF	20%	6.3V
C506	1-165-319-11	CERAMIC CHIP	0.1uF		50V
C507	1-126-206-11	ELECT CHIP	100uF	20%	6.3V
C509	1-163-275-11	CERAMIC CHIP	0.001uF	5%	50V
C510	1-165-319-11	CERAMIC CHIP	0.1uF		50V
C531	1-126-206-11	ELECT CHIP	100uF	20%	6.3V
C532	1-165-319-11	CERAMIC CHIP	0.1uF		50V
C535	1-165-319-11	CERAMIC CHIP	0.1uF		50V
C536	1-126-193-11	ELECT	1uF	20%	50V
C537	1-126-206-11	ELECT CHIP	100uF	20%	6.3V
C539	1-165-319-11	CERAMIC CHIP	0.1uF		50V
C540	1-126-206-11	ELECT CHIP	100uF	20%	6.3V
C541	1-165-319-11	CERAMIC CHIP	0.1uF		50V
C542	1-126-206-11	ELECT CHIP	100uF	20%	6.3V
C543	1-126-206-11	ELECT CHIP	100uF	20%	6.3V
C544	1-165-319-11	CERAMIC CHIP	0.1uF		50V
C545	1-165-319-11	CERAMIC CHIP	0.1uF		50V
C546	1-165-319-11	CERAMIC CHIP	0.1uF		50V
C547	1-126-193-11	ELECT	1uF	20%	50V
C548	1-165-319-11	CERAMIC CHIP	0.1uF		50V
C549	1-165-319-11	CERAMIC CHIP	0.1uF		50V
C550	1-163-275-11	CERAMIC CHIP	0.001uF	5%	50V
C551	1-165-319-11	CERAMIC CHIP	0.1uF		50V
C552	1-165-319-11	CERAMIC CHIP	0.1uF		50V
C553	1-126-206-11	ELECT CHIP	100uF	20%	6.3V
C555	1-124-779-00	ELECT CHIP	10uF	20%	16V
C556	1-165-319-11	CERAMIC CHIP	0.1uF		50V
C559	1-126-206-11	ELECT CHIP	100uF	20%	6.3V
C560	1-163-235-11	CERAMIC CHIP	22PF	5%	50V
C561	1-163-233-11	CERAMIC CHIP	18PF	5%	50V
C562	1-163-235-11	CERAMIC CHIP	22PF	5%	50V
C563	1-165-319-11	CERAMIC CHIP	0.1uF		50V
C564	1-165-319-11	CERAMIC CHIP	0.1uF		50V
C565	1-126-206-11	ELECT CHIP	100uF	20%	6.3V
C566	1-165-319-11	CERAMIC CHIP	0.1uF		50V
C568	1-126-206-11	ELECT CHIP	100uF	20%	6.3V
C569	1-126-206-11	ELECT CHIP	100uF	20%	6.3V
C570	1-126-206-11	ELECT CHIP	100uF	20%	6.3V
C571	1-128-065-11	ELECT CHIP	68MF	20%	10V
C573	1-163-235-11	CERAMIC CHIP	22PF	5%	50V
C574	1-163-235-11	CERAMIC CHIP	22PF	5%	50V
C576	1-163-235-11	CERAMIC CHIP	22PF	5%	50V
C577	1-163-235-11	CERAMIC CHIP	22PF	5%	50V
		< CONNECTOR >			
CN501	1-770-706-11	CONNECTOR, FFC/FPC 23P			
CN503	1-779-416-11	CONNECTOR, FFC (LIF (NON-ZIF)) 13P			
		< TRIMMER >			

Ref. No.	Part No.	Description	Remark
CT503	1-141-539-11	CAP, ADJ 10PF	
		< DIODE >	
D301	8-719-054-23	DIODE RB706D-40-T146	
D501	8-719-422-12	DIODE UDZ-TE-17-3.9B	
D502	8-719-018-51	LED CL-170R-CD-T (SELF DIAGNOSIS)	
		< IC >	
IC101	8-759-701-39	IC NJM3404AM	
IC401	8-759-262-00	IC MC14576CFEL	
IC501	8-759-269-92	IC SN74HCU04ANSR	
IC502	8-759-587-67	IC M30620MC-A05FP	
IC504	8-759-269-92	IC SN74HCU04ANSR	
IC505	8-759-535-48	IC CL680T-D1	
IC506	8-759-573-23	IC LC372100PM-J48-TLA	
IC507	8-759-342-01	IC MSM514260C-60JS	
IC509	8-759-535-62	IC PCM1727E-2/T2	
		< JACK >	
J301	1-537-943-11	TERMINAL, S (S VIDEO OUT)	
J302	1-774-227-11	JACK, PIN 1P (VIDEO OUT)	
		< SHORT >	
JW101	1-216-295-00	SHORT 0	
JW201	1-216-295-00	SHORT 0	
JW401	1-216-295-00	SHORT 0	
JW402	1-216-295-00	SHORT 0	
JW403	1-216-295-00	SHORT 0	
JW404	1-216-295-00	SHORT 0	
JW405	1-216-295-00	SHORT 0	
JW413	1-216-295-00	SHORT 0	
JW421	1-216-295-00	SHORT 0	
JW422	1-216-295-00	SHORT 0	
JW502	1-216-295-00	SHORT 0	
JW503	1-216-295-00	SHORT 0	
JW504	1-216-295-00	SHORT 0	
JW505	1-216-295-00	SHORT 0	
		< COIL/SHORT >	
L301	1-410-372-21	INDUCTOR CHIP 1.8uH	
L302	1-410-372-21	INDUCTOR CHIP 1.8uH	
L501	1-216-296-00	SHORT 0	
L502	1-216-296-00	SHORT 0	
L503	1-216-296-00	SHORT 0	
L504	1-410-375-11	INDUCTOR CHIP 3.3uH	
L505	1-216-296-00	SHORT 0	
L506	1-216-296-00	SHORT 0	
L507	1-216-296-00	SHORT 0	
L508	1-216-296-00	SHORT 0	
L509	1-216-296-00	SHORT 0	
L510	1-216-296-00	SHORT 0	
		< TRANSISTOR >	
Q301	8-729-024-91	TRANSISTOR 2SC2712-GL-TE85L	
Q302	8-729-024-91	TRANSISTOR 2SC2712-GL-TE85L	
Q303	8-729-024-91	TRANSISTOR 2SC2712-GL-TE85L	
Q304	8-729-024-91	TRANSISTOR 2SC2712-GL-TE85L	

The components identified by mark ⚠ or dotted line with mark ⚠ are critical for safety.
Replace only with part number specified.

Ref. No.	Part No.	Description			Remark
Q306	8-729-027-44	TRANSISTOR	DTC114TKA-T146		
Q307	8-729-024-91	TRANSISTOR	2SC2712-GL-TE85L		
Q308	8-729-024-91	TRANSISTOR	2SC2712-GL-TE85L		
Q310	8-729-024-91	TRANSISTOR	2SC2712-GL-TE85L		
Q453	8-729-920-72	TRANSISTOR	2SA1037K-T-146-QR		
Q454	8-729-920-72	TRANSISTOR	2SA1037K-T-146-QR		
Q502	8-729-024-91	TRANSISTOR	2SC2712-GL-TE85L		
Q531	8-729-140-75	TRANSISTOR	2SD999-T1-CLCK		
		< RESISTOR >			
R101	1-216-073-00	METAL CHIP	10K	5%	1/10W
R102	1-208-441-61	RES, CHIP	1.5K	2%	1/10W
R103	1-208-441-61	RES, CHIP	1.5K	2%	1/10W
R105	1-216-295-00	SHORT	0		
R201	1-216-073-00	METAL CHIP	10K	5%	1/10W
R202	1-208-441-61	RES, CHIP	1.5K	2%	1/10W
R203	1-208-441-61	RES, CHIP	1.5K	2%	1/10W
R205	1-216-295-00	SHORT	0		
R301	1-216-624-11	METAL CHIP	75	0.5%	1/10W
R302	1-216-624-11	METAL CHIP	75	0.5%	1/10W
R305	1-216-049-11	RES, CHIP	1K	5%	1/10W
R306	1-216-073-00	METAL CHIP	10K	5%	1/10W
R307	1-216-049-11	RES, CHIP	1K	5%	1/10W
R308	1-216-049-11	RES, CHIP	1K	5%	1/10W
R309	1-216-057-00	METAL CHIP	2.2K	5%	1/10W
R312	1-216-073-00	METAL CHIP	10K	5%	1/10W
R313	1-216-049-11	RES, CHIP	1K	5%	1/10W
R314	1-216-049-11	RES, CHIP	1K	5%	1/10W
R315	1-216-047-00	RES, CHIP	820	5%	1/10W
R316	1-216-657-11	METAL CHIP	1.8K	0.5%	1/10W
R317	1-216-683-11	METAL CHIP	22K	0.5%	1/10W
R318	1-216-033-00	METAL CHIP	220	5%	1/10W
R319	1-216-049-11	RES, CHIP	1K	5%	1/10W
R320	1-216-651-11	METAL CHIP	1K	0.5%	1/10W
R321	1-216-049-11	RES, CHIP	1K	5%	1/10W
R324	1-216-022-00	METAL CHIP	75	5%	1/10W
R325	1-216-295-00	SHORT	0		
R327	1-216-049-11	RES, CHIP	1K	5%	1/10W
R328	1-216-655-11	METAL CHIP	1.5K	0.5%	1/10W
R329	1-216-649-11	METAL CHIP	820	0.5%	1/10W
R332	1-216-651-11	METAL CHIP	1K	0.5%	1/10W
R333	1-216-046-00	METAL CHIP	750	5%	1/10W
R335	1-216-073-00	METAL CHIP	10K	5%	1/10W
R336	1-216-073-00	METAL CHIP	10K	5%	1/10W
R340	1-216-022-00	METAL CHIP	75	5%	1/10W
R341	1-216-121-00	RES, CHIP	1M	5%	1/10W
R342	1-216-022-00	METAL CHIP	75	5%	1/10W
R403	1-216-057-00	METAL CHIP	2.2K	5%	1/10W
R404	1-216-057-00	METAL CHIP	2.2K	5%	1/10W
R405	1-216-065-00	RES, CHIP	4.7K	5%	1/10W
R406	1-216-081-00	METAL CHIP	22K	5%	1/10W
R407	1-216-073-00	METAL CHIP	10K	5%	1/10W
R408	1-216-073-00	METAL CHIP	10K	5%	1/10W
R409	1-216-049-11	RES, CHIP	1K	5%	1/10W
R410	1-216-049-11	RES, CHIP	1K	5%	1/10W
R411	1-216-073-00	METAL CHIP	10K	5%	1/10W
R412	1-216-073-00	METAL CHIP	10K	5%	1/10W

Ref. No.	Part No.	Description			Remark
R414	1-216-081-00	METAL CHIP	22K	5%	1/10W
R415	1-216-081-00	METAL CHIP	22K	5%	1/10W
R423	1-216-073-00	METAL CHIP	10K	5%	1/10W
R424	1-216-073-00	METAL CHIP	10K	5%	1/10W
R425	1-216-073-00	METAL CHIP	10K	5%	1/10W
R426	1-216-073-00	METAL CHIP	10K	5%	1/10W
R457	1-216-025-00	RES, CHIP	100	5%	1/10W
R458	1-216-025-00	RES, CHIP	100	5%	1/10W
R459	1-216-025-00	RES, CHIP	100	5%	1/10W
R461	1-216-025-00	RES, CHIP	100	5%	1/10W
R462	1-216-025-00	RES, CHIP	100	5%	1/10W
R463	1-216-025-00	RES, CHIP	100	5%	1/10W
R464	1-216-025-00	RES, CHIP	100	5%	1/10W
R501	1-216-025-00	RES, CHIP	100	5%	1/10W
R502	1-216-025-00	RES, CHIP	100	5%	1/10W
R503	1-216-025-00	RES, CHIP	100	5%	1/10W
R504	1-216-025-00	RES, CHIP	100	5%	1/10W
R505	1-216-025-00	RES, CHIP	100	5%	1/10W
R506	1-216-025-00	RES, CHIP	100	5%	1/10W
R507	1-216-073-00	METAL CHIP	10K	5%	1/10W
R508	1-216-081-00	METAL CHIP	22K	5%	1/10W
R509	1-216-081-00	METAL CHIP	22K	5%	1/10W
R510	1-216-081-00	METAL CHIP	22K	5%	1/10W
R511	1-216-081-00	METAL CHIP	22K	5%	1/10W
R512	1-216-081-00	METAL CHIP	22K	5%	1/10W
R513	1-216-081-00	METAL CHIP	22K	5%	1/10W
R514	1-216-081-00	METAL CHIP	22K	5%	1/10W
R516	1-216-073-00	METAL CHIP	10K	5%	1/10W
R517	1-216-073-00	METAL CHIP	10K	5%	1/10W
R518	1-216-073-00	METAL CHIP	10K	5%	1/10W
R519	1-216-025-00	RES, CHIP	100	5%	1/10W
R520	1-216-057-00	METAL CHIP	2.2K	5%	1/10W
R523	1-216-013-00	METAL CHIP	33	5%	1/10W
R530	1-216-081-00	METAL CHIP	22K	5%	1/10W
R531	1-216-025-00	RES, CHIP	100	5%	1/10W
R532	1-216-025-00	RES, CHIP	100	5%	1/10W
R533	1-216-025-00	RES, CHIP	100	5%	1/10W
R534	1-216-073-00	METAL CHIP	10K	5%	1/10W
R535	1-216-073-00	METAL CHIP	10K	5%	1/10W
R536	1-216-033-00	METAL CHIP	220	5%	1/10W
R537	1-216-025-00	RES, CHIP	100	5%	1/10W
R538	1-216-073-00	METAL CHIP	10K	5%	1/10W
R542	1-216-049-11	RES, CHIP	1K	5%	1/10W
R543	1-216-685-11	METAL CHIP	27K	0.5%	1/10W
R544	1-216-659-11	METAL CHIP	2.2K	0.5%	1/10W
R545	1-216-025-00	RES, CHIP	100	5%	1/10W
R546	1-216-049-11	RES, CHIP	1K	5%	1/10W
R547	1-216-295-00	SHORT	0		
R548	1-216-049-11	RES, CHIP	1K	5%	1/10W
R549	1-216-025-00	RES, CHIP	100	5%	1/10W
R550	1-216-025-00	RES, CHIP	100	5%	1/10W
R551	1-216-025-00	RES, CHIP	100	5%	1/10W
R552	1-216-025-00	RES, CHIP	100	5%	1/10W
R554	1-216-025-00	RES, CHIP	100	5%	1/10W
R555	1-216-121-00	RES, CHIP	1M	5%	1/10W
R556	1-216-025-00	RES, CHIP	100	5%	1/10W
R557	1-216-025-00	RES, CHIP	100	5%	1/10W
R558	1-216-073-00	METAL CHIP	10K	5%	1/10W

VIDEO

Ref. No.	Part No.	Description			Remark
R559	1-216-073-00	METAL CHIP	10K	5%	1/10W
R560	1-216-051-00	METAL CHIP	1.2K	5%	1/10W
R561	1-216-049-11	RES, CHIP	1K	5%	1/10W
R562	1-216-025-00	RES, CHIP	100	5%	1/10W
R563	1-216-025-00	RES, CHIP	100	5%	1/10W
R564	1-216-025-00	RES, CHIP	100	5%	1/10W
R565	1-216-025-00	RES, CHIP	100	5%	1/10W
R566	1-216-025-00	RES, CHIP	100	5%	1/10W
R567	1-216-073-00	METAL CHIP	10K	5%	1/10W
R568	1-216-073-00	METAL CHIP	10K	5%	1/10W
R569	1-216-073-00	METAL CHIP	10K	5%	1/10W
R572	1-216-073-00	METAL CHIP	10K	5%	1/10W
R573	1-216-073-00	METAL CHIP	10K	5%	1/10W
R574	1-216-073-00	METAL CHIP	10K	5%	1/10W
R577	1-216-081-00	METAL CHIP	22K	5%	1/10W
R578	1-216-081-00	METAL CHIP	22K	5%	1/10W
R579	1-216-073-00	METAL CHIP	10K	5%	1/10W
R580	1-216-073-00	METAL CHIP	10K	5%	1/10W
		< SWITCH >			
S501	1-571-395-11	SWITCH, SLIDE (SYSTEM SELECT)			
		< VIBRATOR >			
X501	1-767-510-41	VIBRATOR, CERAMIC (10MHz)			
X503	1-767-519-11	VIBRATOR, CRYSTAL (27MHz)			

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		MISCELLANEOUS	
		**********	
64	1-773-188-11	WIRE (FLAT TYPE) (23 CORE) (23cm)	
104	1-773-043-11	WIRE (FLAT TYPE) (17 CORE)	
105	1-773-024-11	WIRE (FLAT TYPE) (15 CORE) (32cm)	
106	1-783-949-11	WIRE (FLAT TYPE) (13 CORE) (17cm)	
109	1-769-977-11	WIRE (FLAT TYPE) (13 CORE) (15cm) (VX5A: TH/VX7A: TH)	
109	1-773-009-11	WIRE (FLAT TYPE) (15 CORE) (15cm) (VX5A: E, EA, MY, SP, IA, HK, TW/VX5AJ/ VX7A: E, EA, MY, SP, IA)	
110	1-233-545-11	TUNER (FM/AM) (VX5A: TH/VX7A: TH)	
110	1-233-546-11	TUNER (FM/MW/SW) (VX5A: E, EA, MY, SP, IA, HK, TW/VX5AJ: E, EA/ VX7A: E, EA, MY, SP, IA)	
110	1-693-465-11	TUNER (PACK) (VX5AJ: JE)	
⚠111	1-575-651-11	CORD, POWER (VX5A: EA, MY, SP, HK, TW/ VX5AJ: EA/VX7A: EA, MY, SP)	
⚠111	1-575-653-11	CORD, POWER (VX5A: E, IA, TH/VX5AJ: E, JE/ VX7A: E, IA, TH)	
⚠112	1-569-007-11	ADAPTOR, CONVERSION 2P (VX5A: E, IA/ VX5AJ: E, JE/VX7A: E, IA)	
⚠112	1-569-008-21	ADAPTOR, CONVERSION 2P (VX5A: EA, MY, SP, TW/VX5AJ: EA/VX7A: EA, MY, SP)	
⚠112	1-770-019-11	ADAPTOR, CONVERSION PLUG 3P (VX5A: HK)	
115	1-775-212-11	WIRE (FLAT TYPE) (23 CORE) (18cm)	
257	1-452-925-21	MAGNET ASSY	
258	1-776-042-11	WIRE (FLAT TYPE) (8 CORE)	
⚠301	8-820-020-02	OPTICAL PICK-UP KSS-213D/Q-NP	
302	1-769-069-11	WIRE (FLAT TYPE) (16 CORE)	
HP101	A-2056-681-A	DECK (A) ASSY, HEAD	
HRPE101	A-2056-682-A	DECK (B) ASSY, HEAD	
M1	A-2004-628-A	MOTOR ASSY, CAPSTAN	
M101	X-4917-523-4	MOTOR ASSY (SPINDLE)	
M102	X-4917-504-1	MOTOR ASSY (SLED)	
M501	1-698-792-11	FAN, DC	
M701	A-4672-004-A	MOTOR ASSY (DISC TRAY TURN)	
M801	A-4672-004-A	MOTOR ASSY (DISC TRAY SLIDE)	
S811	1-473-335-11	ENCODER, ROTARY (BU, TRAY ADDRESS DET)	
⚠T951	1-433-561-21	TRANSFORMER, POWER (VX7A)	
⚠T951	1-433-565-11	TRANSFORMER, POWER (VX5A)	
⚠T951	1-433-565-21	TRANSFORMER, POWER (VX5AJ)	

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		HARDWARE LIST	
		**********	
#1	7-685-872-09	SCREW +BVTT 3X8 (S)	
#2	7-685-646-79	SCREW +BVTP 3X8 TYPE2 N-S	
#3	7-685-871-01	SCREW +BVTT 3X6 (S)	
#4	7-685-647-79	SCREW +BVTP 3X10 TYPE2 N-S	
#5	7-685-852-04	SCREW +BVTT 2X5 (S)	
#6	7-685-861-01	SCREW +BVTT 2.6X5 (S)	
#7	7-685-851-04	SCREW +BVTT 2X4 (S)	
#8	7-621-775-10	SCREW +B 2.6X4	
#9	7-685-650-79	SCREW +BVTP 3X16 TYPE2 IT-3	
#10	7-685-872-09	SCREW +BVTT 3X8 (S) (VX5A: HK, TW/VX5AJ)	
#10	7-685-880-09	SCREW +BVTT 4X6 (S) (VX5A: E, EA, MY, SP, IA, TH/VX7A)	
#11	7-628-254-15	SCREW +PS 2.6X6	
#12	7-628-254-50	SCREW +PS 2.6X16	

The components identified by mark ⚠ or dotted line with mark ⚠ are critical for safety.
Replace only with part number specified.